

"Records of Tumors"

M Mangural Dissertation

"The record of microscopical observations
of One hundred Tumors"

Submitted to the Faculty of
Jefferson Medical College.

For the degree of "Doctor of Medicine"
by

A. V. Winton

of Phil^a

January 27, 1852

Manuscript Collection

The Manuscript Collection
of the University of

Cambridge

Manuscript Collection

Manuscript Collection

Manuscript Collection

Manuscript Collection

Manuscript Collection

It is only since a comparatively recent period, that the microscope has been made applicable to the study of morbid growths; and although many observations have been made, and a number of excellent works, published on this subject, upon the Continent of Europe; still it cannot yet be said, that the morphological arrangement of tumors; more especially of those which are classed under the general term malignant, have been sufficiently elucidated. The diagnosis of such growths has ever been an object of much study and interest to the Surgeon; and any means which can assist his diagnosis, or verify it, subsequent to operation, deserves his most careful consideration.

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

Is not the microscope subservient to
 this most important end? Inasmuch
 as this subject is beginning now
 to occupy the minds of the profession
 generally throughout this country, I shall
 make no apology for adding the
 records of the comparatively few cases, I
 have had the opportunity of examining, to
 the general stock of information; in
 the certain expectation, that at no
 distant day; the careful and continued
 investigation of this subject, will be
 attended with results, highly important,
 not only to pathologists generally;
 but more especially to the practical
 surgeon. The ^{study of the} pathology of tumors
 and of fungoid growths is at present
 but in its infancy; the only basis
 of classification hitherto adopted,

has been that afforded by the peculiarities of External appearances, and of the appearances of sections as discernible by the unassisted eye; but these are not sufficient; the transitions into each of those general mechanical differences, which the Exterior and interior ^{surfaces} of morbid growths present are so numerous, that the observation of these alone is not sufficient, either for diagnosis, or for ascertitude; we must go farther, and call in the aid of the microscope;

During the last two years, my attention has been turned to the study of the microscopical elements of tumours, and it had seemed to me, that I could not choose any subject more fit, for

the inaugural dissertation, than the
 record of ~~these~~ observations, a faithful
 one, I can at least promise it to be.

I am aware that such obser-
 -ations, are by many considered fruitless,
 and unprofitable, but for my own
 part, I do most sincerely believe, that
 so useful, nay, necessary an
 instrument - has the microscope become,
 that ere long, it will occupy a
 post of honor in every Surgeon's study.

From time immemorial
 tumors have been divided into
 two grand divisions; Malignant,
 or Heterologous tumors, and non-
 malignant, or Homologous tumors.

Under these heads, divisions,
 & subdivisions, without number
 occur — Now what do we

mean by the term malignant?
 No term in all science, has been
 so much used, and I may say so
 much abused, it is in the mouth of
 every one, and how few are there, that
 can define it? The word
 "malignant" has generally been attach-
 -ed to any disease or growth,
 "which continues to make progress
 in spite of all the efforts of the
 physician or surgeon"; perhaps
 it would be more correct to
 adopt the definition of Dr. Bennett,
 and say that the most accurate
 meaning of the term malignant,
 is "that which ascribes it to a
 growth, having the power in itself
 of redevelopment, that is, once
 existing, it may spread to

Other tissues, or organs, causing in them a disease or growth, similar to itself, and analogous to that possessed by animalcules, or vegetable fungi."

It has always seemed to me that too-many divisions are made, that a subject is rendered difficult of comprehension by too-great attempts to simplify; no two cases, are exactly alike, And if we attempt to bring every case strictly under division or rule; we might continue our sub-divisions ad. infinitum. It is, as Müller says "It is important to see much, ~~and~~ in order, not to lay too great stress on accidental varieties, certain peculiarities continually recur, And I have arrived at the

conclusion, that in all these Structures, there are constant differences, which may be recognized with certainty."

If we bear this last sentence in mind, we shall be able, safely to steer through the sea of contending opinions. It is needless for us, to blindly believe, in the Existence or the Non-Existence of a cancer cell of such determinate shape, and size; let us look for ourselves, and if we do so, I am sure that no faithful Observer, of many Specimens will rise from his task, without verifying the truth of the sentence that there "are constant differences which may be recognized with certainty. Vögel's division of tumors, founded on their microscopical characters

seems to me to be the best of any of the divisions I have yet seen; Strange to say, he has however omitted the class of Epithelial tumors.

His division stands thus.

Non malignant

1. vascular Tumors
- 2 Fatty "
- 3 Fibrous "
4. Cartilaginous,
5. Osseous "
6. Melanotic "
- 7 Gelatinous "
8. Encysted "

Here I would add
the class of Epithelial Tumors.

Malignant

1st Group.

- Deposits in
1. Typhus
 2. Scrophulous
 - 3^d. Tuberculous

2^d Group.

Cancer

1. Fibrous cancer or Schirrus
2. Encephaloid
3. Gelatinous or Colloid
4. Melanotic

Let us consider each of these groups separately, and first then of the vascular Tumors. (Synonymes

the ...
 the ...
 the ...
 the ...

<u>1890</u>	<u>1891</u>
1. ...	1. ...
2. ...	2. ...
3. ...	3. ...
4. ...	4. ...
5. ...	5. ...
6. ...	6. ...
7. ...	7. ...
8. ...	8. ...
9. ...	9. ...
10. ...	10. ...

the ...
 the ...
 the ...

Arteries by Anastomosis, Varus, Erectile
tumors, Hematoma &c.] These tumors
are simple in their character, and
easily understood; offering but little
to ~~record~~ our microscopical observations,
they are ^{composed of} merely dilated capillaries.

The fine vessels may be distinctly
made out, if examined by a ~~low~~
power of the microscope. Care
should however be taken; not to confound
these tumors, with malignant growths,
which may be well supplied with
blood vessels. M. Robin has described
a case (Lébert; *Physiol. Pathol.* T. 4, p. 99)
(*& Pagli. Lezioni de. p. 87.*) — of Erectile tumor, in which little
cul-de-sac, existed along the whole
course of the artery; capable of being
filled, and then emptied of
their sanguine contents.

The first of these is the fact that the
 country is a very fertile one, and
 the soil is very rich. The second is
 that the climate is very healthy, and
 the air is very pure. The third is
 that the water is very good, and
 the food is very delicious. The fourth
 is that the people are very kind, and
 the customs are very simple. The fifth
 is that the government is very good, and
 the laws are very just. The sixth is
 that the religion is very pure, and
 the worship is very sincere. The seventh
 is that the science is very good, and
 the arts are very beautiful. The eighth
 is that the music is very sweet, and
 the dance is very graceful. The ninth
 is that the games are very interesting, and
 the sports are very healthy. The tenth
 is that the games are very interesting, and
 the sports are very healthy.

Next in our arrangement, stand Fatty tumors. These by the older writers are divided into Lipoma, cholesteatoma, and Adipose cysts. Purely fat tumors are generally easily discernible by the naked eye, but not so in the more complicated forms; here, accidental Cysts, Fibrosis, and the presence of fibrous tissue, renders a resort to the microscope indispensable. The common external character of the ordinary fatty tumor are so well known, as to need no description; under the lens, we find the fat vesicles in a normal state that is in most cases, e.g. in the Lipoma and cholesteatoma above alluded to. These fat vesicles vary in size from the $\frac{1}{200}$ " to the $\frac{1}{600}$ " ~~part~~ of an inch in diameter, and

are composed of a cell wall, amorphous in its character, which incloses the free fluid fat, the Stearin. By many writers, and among others, Vögel and Bennett, these fat-cells, or vesicles, are said to possess a nucleus; this is not however a proper term, this darkened, opaque, and flattened so-called nucleus is in reality ^{composed of} nothing but crystals of margaric acid, the formation of which I attribute to Chemical, and often I believe to cadaveric changes.

True nuclei, formative in their character, they certainly are not. Fatty tumours always possess an inclosing fibrocellular capsule, well supplied with blood vessels; this capsule is composed of the fibro, areolar tissue

tissue of the part, in which the tumor
 is developed, and serves as. ~~How~~
 as a bond of union to that part.
 In this capsule the vessels sup-
 -plying the tumor ramify; and
 are so ~~car~~ carried to their ultimate
 distribution. Fatty tumors do not
 occur, alone, there is always more
 or less proportion of fibrous tissue
 present, when this proportion is
 large, it is often difficult for us
 to say, to which class exactly the
 tumor belongs, indeed we cannot
 say that it belongs wholly. Either
 to the (fatty or fibrous class) one, or to
 the other, for while externally presenting
 all the characteristic marks of
 a hard fibrous mass, it may yet
 prove on microscopical investigation

to be composed merely of fat vesicles pressed down in layers, resting one upon another. - For my own part I believe that fatty tumors, often do degenerate into those of a fibrous character, for we know, that if fat vesicles be placed under the compressor of a microscope, the wall of the vesicle will be ruptured, and the free fat escaping as oil globules, the vesicle wall, which I suppose to be not amorphous but fibrous, will remain. - If therefore we have pressure exerted by the tension of integuments, such partial transformation of a fatty tumor can easily be conceived of as taking place; and more than

Thus, it seems to me that the
 Occurrence of adipose cysts may be
 Explained on the theory - I have
 seen several instances, in which
 the female breast has been removed,
 and on ocular Examination,
 pronounced to be a sero-cystic tumor,
 And yet, neither were the apparent
 cysts, true cysts, nor were their
 contents serum; the walls of the
 cysts under the microscope proving
 of a coarsely fibrous character,
 And destitute of any Epithelial
 membrane; showing these cysts to be
 not secreting, in their character,
 but acting as reservoirs. Their
 contents, varying in color from
 yellow to dark purple, and black.
 were nothing but oil, and granules

crystals of margaric acid and
them being dispersed throughout the
whole mass, no vestiges of a
secreting membrane (epithelial in its
character) being visible. I have ^{several} such
specimens in my possession now.

Jennett mentions the
presence of fatty granules, and crystals
of cholesterol in atheromatous
deposits on the arch of the aorta,
I have seen the same thing, not
only in the aorta, but also in the
semilunar, and auriculo-ventricular
valves. With regard to the two
divisions of Lipoma, and Cholesteatoma,
I believe that their difference is the
result of a mere accident, viz
pressure. Müller in his work
"Ueber die feinen Bau, und die Formen

My dear Sir,
I have the honor to acknowledge the receipt of your letter of the 11th inst. in relation to the matter of the estate of the late John Smith, deceased. I am sorry to hear that you are unable to attend to the matter at present, but I am sure that you will be able to do so at a later date. I have no objection to your postponing the matter until you are able to attend to it. I am, Sir, very respectfully,
Your obedient servant,
John Doe

der Krantheften "Geschwulsten" draw
 a line of distinction between these
 two classes; Cruveilhier in Anat.
 Path. liv. ij. tab. vj. does so also.

Müller says: "The cellular
 tissue bears no resemblance to
 the adipose cellular tissue in
 the healthy state... The (i.e. fat)
 cells are irregular in form, as in
 those of the sheep, some being
 pentagonal, others hexagonal &c. in
 form... The fat is more solid
 like tallow" &c. I have examined
 several cases of what I presume
 to have been Cholesteatoma, and
 I must confess that I have
 not been able to notice the
 peculiarities described by the
 above authors, or at least

the state of the country
in view of the situation
the country is in a state
of great distress and
the people are suffering
from the want of food
and clothing. The
government has taken
steps to relieve the
distress and to provide
for the needs of the
people. It has ordered
the distribution of food
and clothing to the
poor and has also
ordered the suspension
of the payment of
taxes for a period of
three months. It has
also ordered the
suspension of the
payment of interest
on the public debt for
a period of three
months. These steps
are necessary to
relieve the distress
of the people and to
maintain the stability
of the country.

to the same extent; certainly none that I have seen deserve to be classified in a separate group, it seems to me (and I say this with all deference to high authorities) to be a complicated simplification to do, —

We next come to consider the general class of fibrous tumors. which I would define to be tumors composed of fibrous tissue (yellow or white) in any stage of development, including in this general division the fibro-nucleated ^{permeate} of the fibro-cellula, of Paget, and the fibro-plastic of Lebert. — In the most perfect form of fibrous tumors, I mean those

19
The first of these is the
fact that the
the atmosphere is a
transparent medium
I say this with all
the best authorities
I have been able to
find. The second is
the fact that the
atmosphere is a
transparent medium
I say this with all
the best authorities
I have been able to
find. The third is
the fact that the
atmosphere is a
transparent medium
I say this with all
the best authorities
I have been able to
find.

in which the fibres are fully formed
 & in which we have an absence
 of the fusiform cells; we find
 upon measurement that the
 fibres vary greatly in size, from
 the 1/4000th to the 1/8000 or 1/10,000th
 part of an inch in diameter.

The yellow fibres are rather
 larger than the white. The
 white fibrous tissue in some
 instances is collected into bands,
 but more generally it forms a
 close net work, somewhat
 like the ordinary areolar
 tissue, the areolæ however being
 very much smaller. Some-
 times these bands take a
 semi-circular, or even a
 completely circular form;

The yellow fibrous tissue on
 the contrary is collected into
 many - bands, or else the fibres
 curl in every direction, very
 much like the horse hair ^{stoppings} of
 cushions - In most tumors;
 these two fibrous tissues are
 combined, ^{it were better} perhaps, I should
 say, that (we always meet
 the white tissue occurring with
 the) although we have tumours
 composed of white fibrous
^{tissue} tumours occurring alone,
 still I have never seen the yellow
 tissue occurring independently
 of the white. Speaking
 however generally I would say
 that these two forms of
 fibre, mostly occur together

The weather being so
the weather being so
half a day. The
and a day. The
March 1st the first
Cousins. I was
these two years
Cousins. I was
day, that (as
the whole of the
the (although he
conflict of the
between the
with I have
after receiving a
the whole of the
the family of
that the
the weather

It is very easy to distinguish them by a glance at the micrisceps. Now what do we mean by the fibro-plastic growth first described by Leber?[?]

As I understand his description, it would seem that he would convey the idea, that the term fibro-plastic, should be applied to those cells, ~~nucleated~~ of course, and to those free nuclei which go to the formation of fibre - either white or yellow, so that a fibro-plastic growth would be a fibrous tumour in proof of advancement; the French fibro-plastic cell, being the same as the fusiform corpuscle

of the English microscopist.

These cells are long oval nucleated, caudated, cells very slightly granular, or at least slightly dotted in their appearance, they may be oval-shaped, or even angular & oval in their form. These tumors present most generally a hard resisting feel, although sometimes they may be so elastic, and doughy as to lead to considerable error in diagnosis. When cut with the knife, they appear pearly white, & bands more or less narrow may often be seen coursing through them - vast quantities

The British...
these cases are too frequent
and cases, and are too
very much present in the
at least the first half
the first half of the century
they have been a very
rapid & not a little
of the same kind of
fact, although somewhat
different in character and
the first half of the century
before the revolution - when
but not the first half
of the first half of the century
from the first half of the century
the first half of the century
the first half of the century

of oil and fat, are always found
 in connection with fibrous tumours,
 very often we have adipose
 cysts, which I have described
 when speaking of fatty tumours,
 & of which I give several
instances - Fibrous
 tumours ~~are~~ always possess
 a species of capsule of
 areolar tissue attaching it
 to that part of the body
 in which it may be located.

Sometimes from the very
 position of the growth, ~~the~~ it
 may seem to acquire
 peculiar characters, as
 for example in those
 hypertrophies of the sheath
 of nerves, which we have

a species of neuroma developed -

The whole subject of neuromatous tumors
 etc is very much confused, no two writers
 agreeing - Now I would define Neuroma
 to be any growth within the neurilemma of a
 nerve, this growth occurring in two
 different ways, either by the hypertrophy
 of the inner layer of the neurilemma, or
 else by the deposit of peculiar cells, between
 the fibres of a nerve. Subcutaneous painful
 tumor is merely a fibrous growth, & hypertrophy
 of the skin, which produces its characteristic
 pain by pressure upon a filament
 of nerve. In tubular form -

Neuroma proper { 1. By hypertrophy of neurilemma.
 { 2. By deposit of true cells between
 the nerve fibres

Subcutaneous painful tumor { Fibrous growth pressing
 { the filament of
 { nerve

We now come to consider a new
 class of tumor, viz, the Cartilaginous,
 these are comparatively rare, rarer
 than would appear from a cursory
 glance at the subject. These
 growths are often confounded not
 only with fibrous growths, but also
 with old Epithelial formations, so
 that indeed I believe it to be
 absolutely necessary to use the
 microscope, before coming to any
 positive conclusion. — To this
 class of tumor Miller, the
 first who really, and satisfactorily
 investigated them, has given
 the name of Enchondroma,
 a name which has since been
 almost universally adopted by writers
 in all countries. What must

We understand by this term? Simply
 "that the growth is formed mainly of
 a tissue like Cartilage" — Generally we
 find such tumours are connected with
 the joints, often however they are met
 with in the soft parts, &c. (For a full
 history of this subject see Paget's lectures
 p. 61. London Ed.) It is only with the
 mesenchymic characters that I have now
 to deal, and these are found to
 agree pretty much with those of
 fetal Cartilage. A variety of Cartilage
 Cells, of every variety and shape and size,
 arranged in various manners. Having
 not however had an opportunity of

Examining very many of these Spec-
 -imens I do not feel competent
 to discuss the general histology of these
 growths, those desirous of studying the

Subject are referred to Müller's work on
 Cancer p. 149. St. Jac. Herz. De Enchom-
 -dromata 1843. Rokitsansky. Pathol. Anat.
 Vland. 1. p. 261. Lebert, Bennett and
 others. — Ovarian tumors I shall
 also dismiss in a few words, inasmuch
 as I know but little about them.
 A description will be given of each
 Case that I have seen, and I will
 not therefore generalize.

Melanotic Tumors I believe to be
 a false division. I have never seen
 any, deserving exclusively that name.
 Melanosed fatty, fibrous, and Carcin-
 -omatous tumors I certainly have
 met with, but I am inclined to
 look upon the ~~deposition~~ deposit of pigmented
 cells as merely a complication of
 the original growth, I would surely

We make an other subdivision,

Next let us look at Encysted tumors, divided by Vogel into True, Simple Encysted T. (Tum. Cystici), and the compd; combinations of this with other forms of tumor (cystoids) — "True Simple Encysted tumors, are those possessing a perfectly closed membranous sac, whose contents are imperfectly, or not at all organized". Under this class we have two subdivisions.

1. Simple cysts containing serous, & aqueous contents
- 2 " " " " thick cheesy contents, e.g.
Epithelial scales, fatty matter of all kind,
Crystals of cholesterin, manganic acid
&c. Teeth, Hair, & many other ~~abnormal~~
products are often found. —

The Cystoid T. the Compound Cystic T. are those in which we find, a cyst, or

Cysts developed within the sac, or the wall of the primary, enclosing cyst.

Page (p. 13) divides cystic T. or Cyst into 1st Simple or Monocyst, containing fluid or unorganised matter & 2^d Compd or proliferous cyst, containing variously organised matter.

Cysts may be supposed to have three modes of growth, or rather of origin. 1. By fluid accumulating in areas, in filaments & other tissues.

2^d By the dilatation of ducts, e.g. Sebaceous cyst (in some cases), lactiferous cysts, and to a certain degree ovarian cysts — 3rd, are those of essentially morbid growth, from reformed Elementary Structures. The investigation of this 3^d class of cysts is full of interest, and I may also say of

difficultly - I will now subjoin Vogel's
division of cysts.

1. Simple or Parren cysts. - (containing fluid or unorgan^d matter)

1. Gaseous cysts - (see Hunter's works. Vol. IV. p. 98. & pl. 37)
2. Serous cysts.
3. Synovial "
4. Mucous "
5. Sanguineous "
6. Decapsular " { mingled with Epithelial scales & chyliferous }
7. Colloid " { of Cholesterol &c
of the Germans - doubtful as
non-malignant -
8. Cyst formed by dilatⁿ of duct, orific. &c.

2. Compound or Proliferous cysts.

1. Cysts with other C. growing in or upon their walls
(see Hodgkin's descripⁿ of Ovarian C.)
2. " " vascular growth from walls of internal surface
3. Wanduliferous cysts.
3. Cancerous cysts. (decaying cysts)
4. Cutaneous proliferous C. (the various &c.

In describing cases I shall allude
to this division -

Here Vogel's division
of non-malignant tumors ends. He
makes no mention of Epithelial growths.

1. Thought of (Thoreau's) (writing)

2. Comparison of (Thoreau's) (writing)

3. Comparison of (Thoreau's) (writing)

4. Comparison of (Thoreau's) (writing)

proper, after a most careful search, I
 am not aware that either any English
 or Continental writer has at all dis-
 cussed this subject - I should say
 alone notices them in his "handbuch
 der allgemeinen pathologischen Anatomie
 p. 383. he says "that although their
 form is often only local, yet that they correspond
 so entirely with Cancer, that writers include
 them under that subject, &c. &c."

The subject of Epithelial
 Tumors, having been chosen by my fellow Stud-
 ent Mr. da Costa, as an inaugural
 thesis, as it is one to which he has
 paid much attention, I shall not
 enter into any of the particulars as to
 the origin, mode of growth &c. of Epithelial
 Tumors.

We have now arrived at the great class of Malignant Tumors. & without paying attention to the details included in the first group, I will pass at once to the consideration of Cancer or Carcinoma

The innocent tumors, the non-malignant tumors, present but comparatively few difficulties, to the investigation of the microscopist; but so however with Carcinoma, here all is darkness, and uncertainty, little has yet been done towards rending the veil of obscurity, which has for ages overhung this dark and most terrible disease; its diagnosis is still uncertain, its treatment, yet more so, and the Great Question of the present day which forces itself upon the mind of the reasoner, and observer, is "What is Cancer? How shall we treat it?"

Cancer is to be met with in almost every portion of the human frame; we find it involving alike skin, mucous membrane, muscles, fibrous tissue, and nerve, and even deposited in the medullary cavities of the bones. If then the question be put; "What are the Elements of a cancerous tumor?"

The answer must be a general one: "The cells of cancer infiltrated into the minute structure of any tissue. — In examining therefore any suspected growth, it becomes necessary, for us to bear in mind constantly, the appearances presented by the part, not only when in a state of health, but also when affected by any other disease, which may yet be foreign to Cancer —

How Common is it to hear such remarks
 as the following from the lips of
 those, who, ^{are called} to use a common phrase
 "Unbelievers in the microscope" or "You say
 this is cancer; now what is your
 standard of cancer; whence is
 it derived; what are your data?
 Have you any, or has it been arbitrarily
 assumed, that this is cancer, and
 that is not? Now these are
 natural questions, and should be
 answered. The only true and practical
 standard, is that deduced, ^{is that}
 (deduced) from the careful and
 continued investigation, and
 examination of such cases, whose
 malignancy is undoubted, those
 cases which destroy life either
 directly, or by returning after repeated

Estimation. Now it will be found
 that all those who have made this
 subject practically, their study; will
 as the result of their own investig-
 -ations, establish for themselves
 a standard of their own, and
 moreover if the results of all
 experienced modern observers, be
 compared together; it will be
 evident that although they may
 differ in minutiae, they still
 agree on the main, important, and
 practical points.

What is the progress of
 Cancer, and first of its origin.

The majority of facts, with
 which we are acquainted, lead to (suppose)
 the belief, that the Elements of a
 Cancerous Growth (I mean those

cells, filaments, and granules) originate
 in a coagulated exudation, poured
 out as all other exudations are by exposed
 capillaries, that is the common belief.
 But Velpeau is of opinion that
 Cancer may exist primarily in the
 blood, and Virchow positively asserts
 (and his authority can scarcely
 be questioned) that in six cases,
 he had seen cancer cells in large
 venous trunks, and he is therefore
 convinced that it may arise locally
 in the blood — Culling & M. Nonat
 discovered cancer cells in the right
 knee vein, these cells being similar
 to those found in other diseased spots,
 and the walls of the vein being unin-
 flamed. But this evidence may
 be erroneous in some respects,

And even if correct, I do not think to be sufficient to establish the doctrine that Cancer, exists as positive cells, in the blood primarily; unless confirmed by future observation: if so, then we may suppose, that under some circumstances, the leucine sanguinis may act as a Stasema as well within the vessels as without.

In cancerous Exudation, the patients are generally of an adult or advanced age, the part first affected is generally a glandular or fatty organ, the Lymphatic Glands are attacked secondarily, (Bennett p. 205) and the Rapidity of growth is in direct proportion to the number of cells, which are very perfect, Then it

Some tendency to ulceration; when this
 does take place, we have the formation
 of fungoid excrescences - In tubercular
 exudation on the other hand, the patients
 are generally young, the part first
 affected is most often a Lymphatic
 gland, afterwards the deposit takes
 place in the lungs, and on serous
 surfaces - There is not much
 tendency to cell formation, the cells
 are abortive; but there is a great
 determination towards disintegration,
 and ulceration. Take (just as we)
 the products of inflammation as
 a standard (say pus) we would
 remark, that cancer is above,
 and tubercle below that standard
 i.e. Cancer is highest in the scale,
 then the product of true inflammation

And that the tubercular Exudation is
 the lowest in the scale — Now
 the Cancer cells, and nuclei once
 produced, the cells propagate
 themselves, by the breaking down
 of the cell walls, and the liberation
 of the nuclei, which form new
 cells. As a general rule the more
 cells in a tissue, the faster its growth, this
 rule applies also to Cancer. Cancer is
 a growth, and vascular, tubercle
 is a deposit (one would almost think
 excrementitious) & possesses no vessels
 My own injections of two or three
 articles show, this relative degree
 of vascularity most distinctly

Cancer is said to be inoculable,
 but there is only one successful experiment
 (Langerhans) upon a dog, He produced ^{the disease} a

Rather I should say, the disease followed
 the injection of cancer cells into a vein.
 All other experiments of a similar
 nature, have since failed in the hands
 of all experimenters, and it is well
 worthy of remark here, that naturalists
 now state that cancer is as common
 in the dog, as in ~~the~~ man, so that
 such experiments can not be relied
 upon. — Perhaps it would be
 well, for me here to say a word with
 regard to experiments of Dr. Leidy of this
 city some few months ago. He took a
 piece of fungus hematodes, fresh, and
 inserting it into the back of a frog, it
 united, and after the lapse of some
 weeks the adhesions were found to be
 complete; from this fact, many have
 inferred a confirmation of the result —

Announced by Langsbek; from this con-
 -clusion I would beg to differ, the mere
 fact of union having taken place, proves
 nothing as to the disease; for Dr. Leidy,
 did not find the characteristic
 cells in any organ, or tissue of the frog.
 Mere union alone resulted - Supposing
 even, he had found, these cancer cells,
 is not the frog of too low an order of
 the animal kingdom, to draw any
 deductions therefrom, respecting the
 propagation of the disease in man?

- I think so - If cancer is
 inoculable, by this time, either I
 myself or some of my friends, would
 have most probably been infected;
 for my own part, freely cut
 surfaces on my hands have
 been exposed to the fluid of cancer for

shows, and yet no irritation has followed - The generally received opinion now is that Cancer is not inoculable, and the single experiment of Sargant's goes for naught - "Cancer may degenerate, the cells receiving a check in their development, and becoming abortive, in other words a healing process takes place, the result being a fatty mass, a fibrous cicatrix, or a calcareous concretion"

This has been especially demonstrated by Professor Rochdale of Prague in 1845 - His observations were & have confined principally to the liver - Hence we need not always say, that "Cancer must be fatal"

Cancerous tumors may be arranged
 for the convenience of study into three
 classes; first, the Sclerous, or hard
 Cancer; second, the Encephaloid or
 Soft Cancer, and third the Colloid
 or gelatiniform cancer; the first
 two forms seeming to differ from
 each other, only in the presence of
 a greater or less proportion of fibrous
 tissue, and also of cells; many
 fibres and few cells constituting Sclerous;
 few fibres and many cells forming
 Encephaloid - Sclerous cannot be
 distinguished from fibrous tumors
 by the unassisted eye, in reality
 it is only a fibrous tumor, with
 one element superadded, and that
 element is the cells of cancer; the
 arrangement of these cells is peculiar

Am que Hematodes is merely a
sprouting, a outgrowing Encephaloid.

They are infiltrated between the fibres of tissue, so that the name of "infiltrating growth" as applied to cancer by Dr. Walke, is a strictly correct, and extremely forcible term. — The Encephaloid; the cells are in great abundance; and the consequent proportionate absence of fibrous tissue, renders the whole tumor much softer, approaching to that as its name imports, a brain-like consistency. — Sarcoms and Encephaloid may exist together, or rather Sarcoms has a natural tendency to pass into Encephaloid, by the more rapid development of cells; so that we often find, both of these different forms of cancer, (if different they be) united in one and the same tumor. — The name Mixed cancer is applied to those collections.

of jelly, or glue-like matter, which occurs either in cysts, or between the fibrous tissue; in this colloid matter, acting as a species of Mastic, the cancer-cells are developed in the same manner as in Scleroma or encephaloid - But little fibrous tissue occurs in colloid cancer.

The synonyms of Scleroma are Carcinomatous Sarcoma, Scleroma, fibrous cancer, & stone cancer; those of encephaloid, are medullary Sarcoma, fungoid Sarcoma, cerebriform Cancer, soft cancer, spongy Carcinoma, and many others too numerous to mention. White colloid cancer is described by writers, as gelatiniform and ulceration, or gum cancer —

I have now arrived at that
 very interesting, and puzzling question.

Is there, or is there not a cancer
 cell? The Existence and non Ex-
 -istence of such a cell, has been an
 Apple of discord to all microscopic
 observers; some have answered
 positively in the affirmative, and
 others, equally as positive in the
 negative; to the question, Is there
 a true, distinctive, and always
 characteristic Cell of Cancer?—For
 my own part I believe that there
 is a true cancer-cell, but
 whether it is possible always
 to distinguish such cell, under all
 circumstances, with unerring
 certainty, seems to me to be
 another consideration. This

I have been thinking of you
very much lately and wondering
how you are getting on. I hope
all is well with you and your
family. I am well and hope
to be of service to you in some
way. I am sure that you are
very busy and I do not want
to be a burden. I am sure
that you are very kind and
generous. I am sure that you
are very kind and generous.
I am sure that you are very
kind and generous. I am sure
that you are very kind and
generous. I am sure that you
are very kind and generous.

Subject has however been so well treated
 by Lebert in his "Traité pratique des
 Maladies Cancéreuses, et des Affections
 Chroniques, confondues avec le Cancer"
 that I may well be excused for
 translating immediately - "If the question
 be put in the following terms, "An isolated
cell being given, is it possible to determine
 by microscopical observation, whether
 or not that cell belongs to cancer;
 we would not hesitate to answer
 in the negative; But the ^{problem} (Question)
 we have always sought to resolve, is
 this; ~~Not~~ An isolated cell, but a ^{quantity} tissue
 being given, is it possible to determine
 by microscopical inspection, if that
 tissue is cancerous, or not? To this
 Query we would not hesitate to answer
 in the affirmative; always however

making the reservation, that
 there are exceptional circumstances,
 (which we will discuss hereafter) in which
 Microscopical Examination alone
 (may be) insufficient" ---

In another portion of the same work, ~~Let~~
 add " We have already insisted
 at length on our Physiol. Path. on the
 Specificity of the Cancer cell ---

and again " The type of the Cancer
 cell, is a small, regular, sphere,
 with an elliptical nucleus excent-
 rically placed, occupying about
 one half of the interior of the cell;
 and containing one or more
 nucleoli; but this type is not often
 pure, the cellular envelope takes
 the ovoid, triangular, heart, and
 caudate shape It would

be useless, to recount here all the shapes assumed by the cancer cell, it is sufficient to remark, that in no other cell do we observe this multififormity of the cell wall to the same degree,

The nucleus, as we have already seen, the constant element of the cancer cell

Now it appears to me, that this little extract from Leibniz (published only some three or four months since) contains (the whole) all of the essential points, relative to this much discussed, and much abused Subject the cancer cell. — I have

endeavored in the foregoing pages, to give a short account

of the present state of our knowledge of
 medical anatomy; as derived by the
 means of the microscope. The origin
 is at best, dangerous to truth, I have
 therefore avoided it as much as possible,
 and have stated the views of our best
 and soundest observers. From the very
 nature of the subject, I have been
 obliged to quote largely; but I preferred
 doing this, to incurring the blame of
 one, who generalizes ^{himself} without either suffi-
 -cient thought, or observation. —

In the remainder
 of this little paper, I set out the
 records of my own observations. These
at least I can promise to be both
original and faithful. — — —

Records.

First division - Non malign^t Tumors

1st Group - Fatty Growths.

Case _____ - Thos. Calahan, et. about 40.

Has had steatomatous tumor on arm for some months, immediately over the deltoid muscle.

The tumor was about as large as a hen's egg. Removed by Dr. Mittle at the Clinic of Jeff^d College Oct^r 19th 1890.

Micro Examⁿ - This tumor was in every respect a normal fatty Tumor (if I may use such expression).

The fat vesicles or cells were about the $\frac{1}{800}$ or $\frac{1}{1000}$ part of an inch in diameter. A great many free ^{oil} fat globules were floating about.

Fibrous tissue was also present to some extent. The Tumor was surrounded of the usual capsule of "fibro-cellular tissue".

See plate 1. fig. 1

I am indebted to the kindness of Mr.
J. C. Morris for an opportunity of examining
this specimen.

Case. , 1837 Oct. 8th S. Gibson, at Univ.
 ity, removed from neck a fatty tumor.
 This tumor on microscopical examination
 showed the usual fat vesicles, &c. but
 many of them possessed this peculiarity
 viz the presence of chrysotham nuclei
 of manganic acid, assuming a stellated
 form, varying in size, some occupying
 the whole interior of the cell, while
 some existed as mere points. These
 Chrysotham were in some instances
 also deposited on the external
 surface of the cell wall. Fibrous
 tissue, and oil globules were
 also present to a great extent, the
 latter resulting from the bursting
 of the walls of some of the
 vesicles, and the consequent
 escape of the oily contents.
See plate 1 fig. 2.

Case No. 1111 is a case of

the same kind as the

one in the case of

the same kind as the

one in the case of

the same kind as the

one in the case of

the same kind as the

one in the case of

the same kind as the

one in the case of

the same kind as the

one in the case of

the same kind as the

one in the case of

the same kind as the

one in the case of

Case ____ - C. G. M., Aet 48. Unmarried,
 had experienced for several months prior
 to last June, occasional pains in the right
 breast; about the commencement of that
 month, a hard lump could be felt on
 examination, which gradually enlarged
 until the early part of July, when it
 was removed by Dr. Parcott. The wound
 healed kindly and the patient is now
 entirely recovered. - The breast when
 removed was of a medium size, and
 seemed to consist of a hard fibrous
 tumor, enveloped in a thick layer of
 fat, presenting to the view internally,
 numerous dense, nodulated bodies, of
 an almost cartilaginous consistency,
 crunching under the knife when cut, there
 several cysts were also seen, filled
 with a thick, oily fluid, varying

1840
The first of the year
has passed in a quiet
and uneventful manner
and the weather has been
generally good. The
crops are all well
and the stock is
in good health. The
winter has been a
very successful one
and the spring has
been a very good
one. The summer
has been a very
good one. The
autumn has been
a very good one.
The year has been
a very successful
one. The weather
has been good.
The crops are
all well. The
stock is in
good health.
The winter has
been a very
successful one.
The spring has
been a very
good one. The
summer has
been a very
good one. The
autumn has
been a very
good one. The
year has been
a very successful
one.

in color from a dirty brown to a pump-
 like hue; these cysts were of different
 sizes, some being only as large as a
 pea, and others double and treble
 that size. A section made comp-
 letely through the tumor from
 without, revealed the following
 structures; Next to the skin, a layer
 of fat; then a hard flattened, fibrous,
 mass; then the dense nodulated bodies
 above alluded to, and lastly a layer
 of tissue; somewhat hard in its
 character, and apparently fibrous,
 containing the cysts. The layer of hard-
 ened tissue immediately subjacent to
 the superficial fascia, proved when
 examined by the microscope, to be
 fibrous; the fibres interlacing closely one
 with another. By the addition of acetic

acid, the whole mass was rendered transparent; and scattered throughout might be seen numerous, elongated oval nuclei, about the $\frac{1}{1500}$ " part of an inch in length, and about the $\frac{1}{4000}$ " part of an inch in breadth, - (see plate 1. fig 3. a). The nodulated masses presented the same fibrous appearance; no nuclei could however be detected even after the addition of acetic acid. The mass in which the cyst occurred, and which was situated directly above the great pectoral muscle, proved, upon examination, to be composed of merely condensed adipose tissue, the fat vesicles being flattened, & arranged in laminae, one upon another, giving the whole a somewhat fibrous appearance. Many of the fat vesicles contained chrysatine, flattened nuclei (b)

of manganic acid. I use the term nuclei in the sense defined hitherto. In some instances the crystals seemed to be deposited on the external surface of the vesicle. The cysts, which were filled with an oily fluid, were surrounded by fibrous walls, and I was not able to detect, even after the most careful examination, any vestige of a serous lining, epithelial membrane.

The contents of the cysts consisted chiefly of oil globules, but there was also a considerable quantity of granular matter - (c) - The substance of the mammary gland, seemed to have been almost entirely absorbed; very few of the glandular cells could be detected, and those were situated only in the anterior portion of the breast, in this

Region the galactophorous tubes remained
 in a healthy condition - An analogy
 has been pointed out by some of the modern
 German writers, between cirrhosis of the
 liver, and that condition of the Mammary
 gland, here described, in which we have
 great and hypertrophic development of
 the fibrous sheath of the gland, this sheath
 covering not only the external surface of
 the gland, but also extending in throughout
 its whole substance prolongations of thick
 membranous fascia, permeating the
 substance in the same manner as
 the capsule of Glisson does that
 of the liver - The same causes
 acting upon analogous tissues, will produce
 like results; the development of a fibrous
 tumor, causing atrophy and absorption of
 either gland - The occurrence of the

only cysts I would explain on the principles
laid down in the Introduction to these Records.

This ~~whole~~ case is reported
at length in the Medical Examiner Dec:
1857. —————

Case. Plate 1. fig 4. Shows the appearance
presented by a fatty tumor, about the
size of a large pea, removed from the
face of a Student of medicine by
Dr. Mütter, May 15th 1858. True normal
fat-cells of large size, about the $\frac{1}{500}$ "
to $\frac{1}{300}$ " part of an inch in diameter.

Case. has had a
congenital tumor on the back of the
thumb of the left hand. The case
was brought to the clinic by Dr. Pösch-
haus and was operated upon by Dr

Muttler at the clinic of Hoff. Med. Coll.
 The tumor was found to be adherent to the
 periosteum of the metacarpal bone of the
 thumb - upon microscopic examination
 I found the tumor to be composed of
 fibrous tissue, interspersed with numerous
 masses of fat vesicles, the fibrous tissue
 was for the most part of the yellow
 variety - (See plate 1. fig 5)

Upon the addition of acetic acid I
 thought I was able to distinguish some
 fusiform capsules, going to the formation
 of the fibrous tissue but of this I will
 not be certain - Examined
 Externally this tumor presented a
 soft, doughy, elastic feel, so as
 almost to convey to the examiner
 the idea of a cyst. The wound
 healed kindly.

Case. — N. Y. L. at 27.

D. Müller at Clin. of K. S. M. S. S. S. S.

This tumor was situated upon the left posterior scapular space, and was as large as an orange, and lobulated in its character, with the usual investing sheath of "fibro-cellular" tissue. The fat cells presented only the peculiarity of clumping of manganic acid, both internally and externally (See plate 1, fig. 6).

Case. Mrs. Weygand at about 50 has had a tumor in breast (the left) for some ten or twelve months, with shooting pain &c. — The tumor was removed by Dr. Müller and Pancoast May 12th 1887. The axillary

gland of the same side being hard-
 ened and enlarged, they were
 also removed. Upon an Examination
 of the breast microscopically, the
 Appearance presented, was so
 exactly similar to that of the
 breast removed on July 8th by
 Dr. Penckow, and reported at
 page , that I have not consid-
 ered it worth while to make other
 drawings very full. plate 1, fig 3 answers
 for both. - The patient recovered,
 the wound healing in 10 days, and
 is now quite well. Perhaps however I
 had better ————— insert the proper
 plate as taken from the case. See plate
 2, fig. 3.

————— " —————

2d Group. Fibrous tumors.

Case, A. M. at 60. Has had a tumor existing on the plantar fascia, as a hard ball, little body for many years, but it was only a few months prior to its removal that it occasioned any inconvenience, it then began to enlarge rapidly, and attained nearly the size of a walnut. The tumor was closely adherent to the skin, which was with difficulty dissected off, and appeared to be of unusual thickness. Upon placing a section of the growth under the field of the microscope, it was observed to consist of a fibrous tissue, a rather of bands of ~~fibrous~~ tissue, the bands in some instances running side by side in a wavy manner, and in others interlacing the with another. The fibers when separated by the use of the needle, appears to partake of the character of yellow fibrous or elastic

tissue. Here & there might be seen the fusiform capsules, described by Leake, and Bennett, which were composed of a simple nucleus, with two caudated extremities, the nucleus being about the $\frac{1}{3}$ part of an inch in diameter. These fusiform capsules by their juxtaposition evidently went to the formation of fibres. Fat vesicles, & free fat globules were to be found in abundance throughout the whole tumour. (See plate 2, figs. 1 & 2)

Case, Henrietta Williamson at 18 (negro)
 She had for several months a hard lump forming in the pendulous lobe of the left ear, producing some little pain. This was removed by Dr. Cornish at clinic of Jefferson Medical College Nov. 9th 1830. Microscopical Examⁿ should the map to be nearly fibrous. See plate 2 fig 4. This case has been reported

by Dr. Heller in the "Norddeutsche Monatshefte,
für Natur- und Heilkunde," Dec. = 1880, p. 225.

Path. This tumor of the Ear, is somewhat
rare, occurring only I believe in negroes
and Amia, never in the White.

Case - N. Y. Z. a Sailor, at the
Marine hospital, died with all the symp-
toms of cancer of the Stomach. This
Organ was removed at a Post. mort.
held by Dr. McClellan M.D., and to
whom I was indebted for an opportunity
of examining the specimen. The Stomach
was about four inches long, and
about two, and a half wide. The
Entrance of the Oesophagus was almost
entirely obliterated; the walls of
the Stomach throughout varied from
a quarter to a half an inch
in thickness & the cavity (of the) was

diminished to a space very little larger than an egg, the mucous membrane was rugous and corrugated -

When I examined the walls of the stomach microscopically, I found them to be composed almost entirely of fibrous tissue, and granular matter (see plate 2 fig 5). The proper structure appearing to have been entirely displaced - This was a case of extreme interest -

~~~~~ " ~~~~~

CASE. P. E. R. a man of about 45 years of age, has had a swelling on the buttock for 15 years, soft, & elastic in its feel. removed by Dr. Mitten at Lf. Clinic 1887 Oct-15. - Showed microscopically fat vessels, and yellow fibrous tissue of a very beautiful character - see plate 2 fig 6. - *Wound healed rapidly*







Case. Joseph Crust, at 56. Presented himself at Jeff. Med. Coll. Clinic with a condylomatous Tumor, removed by Dr. Mutter. Microscop. Examined, showed simple white fibrous structure, so simple that I have given no Plate. 1880. Oct. 26.

Case. Elizabeth Gunn, at 24 years, small, hard, fibrous tumor removed by Dr. M. at L.C. Clinic. White fibrous tissue. Nov. 27. 1880. No Plate. This tumor was not congenital.

Case. Tumor of Heel, removed by Dr. Pancoast. Nov. 30<sup>th</sup> 1880. Yellow fibrous tissue, similar to that represented at Plate 7, figs. 182.

Tumor brought to me by Mr. Chas. Neff.



1870. I have been thinking of  
writing to you for some time  
but have been so busy that I  
could not find time. I am  
well and hope these few lines  
will find you the same.

Yours truly,  
Wm. Lloyd Garrison

Enc. I have enclosed a copy of  
the 25th No. of the Boston  
Traveller for you. I hope it  
will be of interest to you.



Case, — E. J. W., a student of medicine has had for several years a little tumor on the left side of the cheek. Dr. Mütter removed it 1887 Nov. 9. Found to be a fibro-plastic growth. I should say it was beginning to enlarge, and to be a little painful. (This tumor was ex<sup>d</sup> by Dr. S. W. M. & Mr. J. da C.) I found in it (plate 3 fig 1) fibrous tissue, & small non-nucleated, oval, faint cells about the roots of an inch in diameter also fat vesicles, epithelial scales, and some filaments of nerves — These small oval faint cells, almost granular will be found to be present in most growths involving the skin.

" "

Case — A. Y. Z. An "Erectile tumor of the face" has existed for some months, removed at the Jeff. Med. Coll. Clinic on Nov. 12.<sup>th</sup> 1887. by Dr. Mütter (also ex<sup>d</sup> by Dr. S. W. M. & Mr. J. da C.) On microscop<sup>l</sup> Exam<sup>n</sup>. I found the fibro-plastic







cell as described by Liebert in perfection (See plate 3. figs 2 & 3) at (a) we have the long caudate spindle shape plastic cell, with a distinct Nucleus, about the  $\frac{1}{4}$  of an inch in diam. Numerous shapes of these cells are to be seen in fig. 2 - At (b) I have represented the oval, granular cell, non-nucleated described in the preceding cases. - at fig 3. I have drawn the fibro-plas. and oval cells more highly magnified, showing however the same peculiarities. Some of the fibro-plas. cells even show nucleoli.

Case, 1871 Nov-19. Mr. J. C. Morris presented me with a section of tumor, Langue- pendulous from the female breast, removed by Dr. Fox at the Penn<sup>a</sup> Hospital. The History of the case was imperfect. The tumor was not productive of much pain. On Examination I found the appearance







Represented at Plate 3 fig 4. - Epith. scales,  
fibro-plastic cells, peculiar oval cells,  
and yellow fibrous tissue. The growth  
was about as large as a walnut.

Case - A. N. presented herself at the  
clinic of J. H. M. D. with a <sup>hard</sup> tumor of the breast, giving  
considerable pain - The tumor had existed  
for some time. The Breast was removed by  
Dr. Mütter Nov 19<sup>th</sup> 1837. Microscopically  
Examined I found fat vesicles, fibrous tissue,  
colostrum in some quantity (see Plate 3, fig 5,  
c) and a considerable proportion of  
glandular matter. These cells are seen  
at (d), also oily globules free. The destruc-  
tion did not seem in that case to have  
gone on to nearly such an extent as I have  
often seen it - This is shown by the presence  
of such a proportion of gland cells. The  
wound healed well.







Mr. A. Y. Z. a. m. presented himself at the  
 Clinic of Eff. Med. College complaining of a hard  
 lump, immediately at the symphysis of the  
 jaw, <sup>chin</sup>. This tumor had been some months in  
 forming - The growth was removed by Dr. J. D. <sup>Smith</sup>  
 Nov. 22 1877 - Microscopically examined it presented  
 the appearance, given at Plate 4 figs. 1 & 2 -  
 Beautiful cysts of yellow fibrous tissue, (a) some  
 apparently empty, others enclosing Mac cells, non-nucleated  
 but dotted, such as we heretofore described, at (d) are  
 seen the fibroplastic cells, at c. I have shown Epidemic  
 cells, with single and double nuclei - at fig 2  
 a is seen a large Epidemic scale, about  $\frac{1}{5000}$   
 part of an inch in diameter, also the fibro-  
 plastic cells (b). These fibroplastic cells, are  
 about the  $\frac{1}{2500}$  of an ~~in~~ inch in diameter, and  
 are very long, comparatively - It is worthy of  
 remark, that this patient, had had a tumor  
 of lip, (not examined) removed previously. (Dr. S. M. M. & Mr. J. D. C. exp<sup>d</sup> this T.)  
to be pronounced it fibroplastic







Case. 1887 Dec: 10<sup>th</sup> - Rec<sup>d</sup> through the kindness of  
Mr. I. C. Morris a section of mamma, tumored  
at hospital - Of the history I know nothing. The character  
of the growth was fibro-plastic (See plate IV. fig 3)  
at (a) I have shown a mother cell, with young or  
daughter cells in the interior. This cell was about the  
1/300<sup>th</sup> of an inch in length. at b we have fibro-plastic cells,  
at (c) fibrous tissue, at (d) the epidermic scale, at (e)  
one of the comp<sup>d</sup> granular cells described by Bennett,  
& which we find in all tumors, seeming to be a degeneration  
(if there is such a thing) of other cells, - at (f) free oil  
globules -

Case - 1880 Dec: 14 - Rec<sup>d</sup> from Dr. Pancoast  
through Mr. C. Neff, a tumor. in dolorum of the  
Ant<sup>r</sup>-Tibial nerve. I exp. it with Dr. Keller of  
this city (see plate 4. fig 4. (1.) This plate is taken from a  
drawing of Dr. Keller.) at (a) we see the nerve fibres  
with the white cylinder of Schwann, at b, & c  
are to be discovered peculiar cells, partially







~~condensed~~ condensed, or rather elongated Nod,  
non-nucleated but dotted - These cells were  
faint, and indistinct, but still with care  
they could be discerned - This is one form  
of neuroma, viz a deposit of <sup>new & abnormal</sup> cells in the  
interstices of the nerve fibres - I here cannot  
do better than to group another  
Case, the Oct-8<sup>th</sup> 1887 A girl at 20  
presented herself at clinic, with a hard, painful  
tumor on the right <sup>posterior</sup> supra-scapular space,  
This tumor had existed for a year, but  
only during the last 4 months had it  
occasioned much pain - It was removed  
by Dr. Pancoast, the microscope Exam. it  
proved to be merely an hypertrophy of the mesen-  
chymal neurodermis (see plate IV. fig 4. ii)  
merely fibrous tissue could be seen -

I have now given the two forms of  
true neuromatous tumors - The Subcutaneous







painful tumor, is a believe only a fibrous tumor pressing upon the filaments of a nerve, I have not however had an opportunity of examining such a specimen.

Case of Cicatrix. At Plate IV fig 5 & 6 I have shown the appearance of a cicatrix removed by Dr. Mütter from the hand on Nov. 8. 1837 at Clinic of Jeff. Med. College. At fig 5(a) is shown the yellow fibrous tissue of which the cicatrix was principally composed, at (b) see oil globules, and at (c) a vague cyst with fibrous walls. At fig 6. (a) is fibrous tissue, (b) a capillary vessel, with a diagonal series of trabeculae; what these are I do not know, (c) we here have the nerve tissue, with the white cylinder of Schwann. This cicatrix was quite a large one, and was taken from the hand, the result of a burn. All cicatrices present similar appearance.







CAR, At Plate 5 is represented the appearance presented by a cancer of cheek in Samuel Allen at 58, who presented himself at the clinic of Jeff. Med. College - The early history I do not know, but at the time of operation (Oct: 27. 1880), the tumor was a red, fungous, <sup>ulcerated</sup> mass extending backwards from the angle of the mouth - The mass was removed by Dr. Pancoast. When I examined it, I found the appearance presented at Pl. V figs. 1, 4, & C, (a) being cancer cells of every size from  $\frac{1}{1000}$  to  $\frac{1}{2000}$  (part of an inch in diameter), (b) represents the ordinary Epidermic or Epithelial cells, and it has always seemed to me, that these cells, possessed much larger nuclei, when occurring in diseased tissue, than otherwise. At (c) we have fibrous tissue, at (d) the Compound granular cells, spoken of heretofore - At (m) fig 6, we have the mother cells, enclosing young cells, some very full, others as we see enclosing only 5 or 6. - This tumor







Returned subsequent to operation, and was  
 again removed on Decr 11. 1890, less than two  
 months after the first operation, I again exam<sup>d</sup>  
 the mass, & found it precisely the same appear-  
 -ance as previous, & which I have figured  
 at figs. 2, 3, & 5. pl. V. The wound healed  
 & the patient returned home, but in  
 6 months died - No post-mort. Exam<sup>ly</sup>  
 This was a very marked case of true  
 Cancer—

Case. 1890 Decr 21. Received from Mr  
 Camac. a breast removed by Dr. Ponceast  
 in private practice from a lady near Mt  
 Holly. N. J. - Upon Exam<sup>ing</sup> it in connection  
 with Dr. Keller, we found such cells as are rep<sup>re-</sup>  
 -sented at plate VI. fig. (b) true cancer cells, and  
 (a) peculiar cells, half formed, without nuclei, but  
 dotted. Dr. Keller considered these as free nuclei,  
 in a stage of development - By the addition of



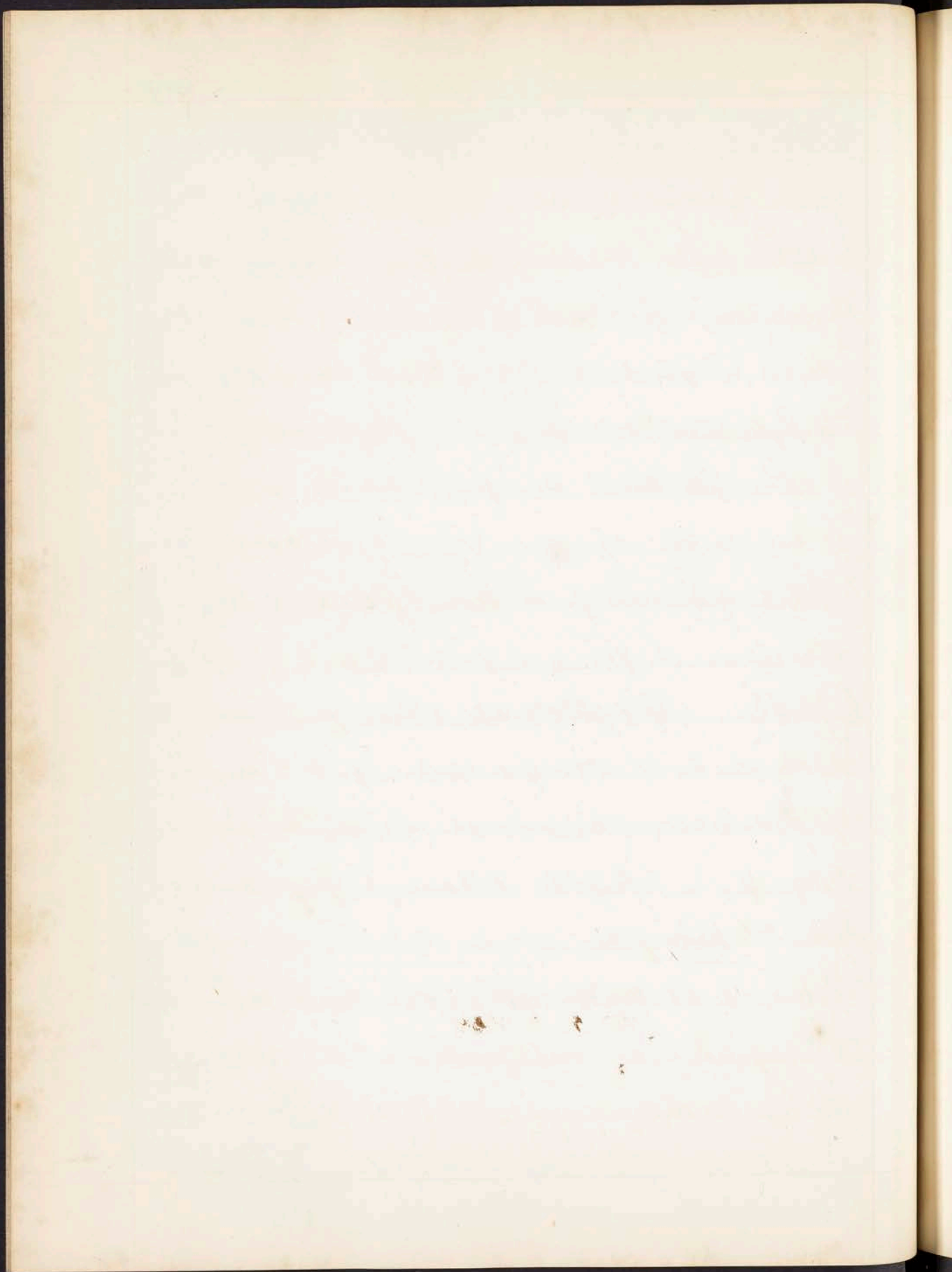
between the two is a difference of 100 feet  
from 1000 to 1100 feet, the first of these  
is the first of the first series, 100 feet  
the second of the first series, 100 feet  
the third of the first series, 100 feet  
the fourth of the first series, 100 feet  
the fifth of the first series, 100 feet  
the sixth of the first series, 100 feet  
the seventh of the first series, 100 feet  
the eighth of the first series, 100 feet  
the ninth of the first series, 100 feet  
the tenth of the first series, 100 feet

1000 feet  
1100 feet  
1200 feet  
1300 feet  
1400 feet  
1500 feet  
1600 feet  
1700 feet  
1800 feet  
1900 feet  
2000 feet  
2100 feet  
2200 feet  
2300 feet  
2400 feet  
2500 feet  
2600 feet  
2700 feet  
2800 feet  
2900 feet  
3000 feet  
3100 feet  
3200 feet  
3300 feet  
3400 feet  
3500 feet  
3600 feet  
3700 feet  
3800 feet  
3900 feet  
4000 feet  
4100 feet  
4200 feet  
4300 feet  
4400 feet  
4500 feet  
4600 feet  
4700 feet  
4800 feet  
4900 feet  
5000 feet  
5100 feet  
5200 feet  
5300 feet  
5400 feet  
5500 feet  
5600 feet  
5700 feet  
5800 feet  
5900 feet  
6000 feet  
6100 feet  
6200 feet  
6300 feet  
6400 feet  
6500 feet  
6600 feet  
6700 feet  
6800 feet  
6900 feet  
7000 feet  
7100 feet  
7200 feet  
7300 feet  
7400 feet  
7500 feet  
7600 feet  
7700 feet  
7800 feet  
7900 feet  
8000 feet  
8100 feet  
8200 feet  
8300 feet  
8400 feet  
8500 feet  
8600 feet  
8700 feet  
8800 feet  
8900 feet  
9000 feet  
9100 feet  
9200 feet  
9300 feet  
9400 feet  
9500 feet  
9600 feet  
9700 feet  
9800 feet  
9900 feet  
10000 feet











Acetic acid, the granules disappeared, & a nucleus was brought into view, which was always adherent to the wall of the cell, <sup>fig 2.</sup> perhaps instead of the term nucleus, I should say nucleolus. These cells or free nuclei were about the  $\frac{1}{3000}$  part of an inch in diameter. Throughout the substance of the whole tumor were found small cysts filled with oily contents - cysts of fibrous tissue were also to be seen filled with cancer cells from the  $\frac{1}{1500}$  to  $\frac{1}{2500}$  of an inch in size - a good deal of fibrous structure was present (see fig 3) Mother cells, compound granular cells, and also colostrum (in small quantities), could be found. - Refer to Plate 6 figs 1-6, for full drawings.

Case. J. M. Hendricks at 26. Brought to the Clinic of M. C. <sup>Oct. 12<sup>th</sup> 1880</sup> with a tumor on the scalp as big as an orange. - Has had this tumor for some months - removed by Dr.







Mittler - On Examination I found cells  
 as I have drawn at Plate VII fig 1 & 2.

Cancer cells, Fibrous tissue and  
 Epidemic scales. This tumor has  
 since come back, & has remained by  
 Chloride of Zinc. It has now [Jan 1852]  
 returned again. The Patient is under Dr Hornet's care.

---

Case - At Plate VII figs 3 and 4  
 I have drawings from a cancer of  
 the parotid gland. The specimen was  
 obtained from a post-mortem made  
 by Dr Keller & Dr Brown with Dr Parrish.

Fig. 3. Cancer cells, & Epidemic  
 scales. Fig 4. Same, also showing  
 vessels. I do not know the  
 history of the case. - Oct. 18<sup>th</sup> 1857.

---







Labornia Hampton, 5<sup>th</sup> St. near Federal  
 Al-8. presented herself at clinic of M.C.  
 with an Epulis of left side inferior maxilla. On  
 the 20<sup>th</sup> Nov 1880. The tumor had been some months  
 growing (I think 8 or 9), at first of a white appear-  
 -ance, during the 3 mos. prior to removal it  
 became of a purple hue. Removed by S. Miller  
 with a large portion of the inferior maxilla bone.  
 Upon Exam<sup>y</sup> the tissue with the microscope, I  
 found the arrangement as shown in Plate VII  
 figs 5. - (m) mother cells, with daughter cells, (b.)  
 Epithelial cells, and (a) perhaps cancer cells.  
 I am doubtful, whether this tumor is really  
 a cancer or not, its history is not cancerous.  
 It may be fibro-plastic, I think it is, although  
 the fact of its having returned during the  
 last 3 months (Nov. 1. 82) would be some med-  
 -icine go against such opinion - Still I am  
 not able to pronounce, without further  
 observation —







Case, 1890 Dec 21. Rec<sup>d</sup> from Dr Keller, specimens  
 of diseased tissue removed ~~from~~ at a post mort. Exam<sup>t</sup>  
 of a patient of Dr. H. & Dr. Pepper's. of the history  
 of case I know nothing - at Plate VIII fig 1  
 we have shown ~~at~~ the appearance of a  
 hard (fatty) crunching mass removed from  
 the anterior mediastinum - at (a) the  
 peculiar cells in pre nuclei described before -  
 at (b) we have true adenoid cancer cells - At  
 fig. 2, we have the appearance of peculiar cells  
 when acted upon by acetic acid in the same  
 manner as described at page in case of  
 Breast. At fig 3, I have drawn the appearance  
 of mass in great pectoral muscle, (a)  
 muscular fibre altered in character - (b) cells  
 as above - (c) fibrous tissue. Fig. 4 is a  
 mass of a lobular character taken from the  
 kidney of same patient, showing fibrous cysts (a)  
 filled with cells of cancer, and (b) true cordy







Cancer cells. - At fig. 5 we have the same acted upon by acetic acid as seen before - Fig. 6 - (a) same peculiar cells, (C) uriviferous duct, surrounded by cells. - A. same cells more highly magnified

---

Case. Specimen presented to me by Dr. Nuttigham. Mrs. P. at 46, a widow & the mother of several children has been ill for several years, complaining of severe abdom. pains, feelings of lassitude &c. and all the symptoms characteristic of Uterine disease. During the year previous to her death which took place in March last, the Epigastric pains increased becoming of a lancinating character; general derangement of the functions took place - the stomach sympathized to a remarkable degree with the Uterus, constant vomiting occurred, & the patient finally perished - During all this period discharges of blood similar to the Catamenia took place, occurred, although at irregular intervals - Upon p.m. Examt.



There are 41 days in the month of  
the year and the year is divided into  
four seasons. The first season is  
the winter season. The second season is  
the spring season. The third season is  
the summer season. The fourth season is  
the autumn season.

Chapter 1  
The first season is the winter season.  
The second season is the spring season.  
The third season is the summer season.  
The fourth season is the autumn season.  
The first season is the winter season.  
The second season is the spring season.  
The third season is the summer season.  
The fourth season is the autumn season.  
The first season is the winter season.  
The second season is the spring season.  
The third season is the summer season.  
The fourth season is the autumn season.  
The first season is the winter season.  
The second season is the spring season.  
The third season is the summer season.  
The fourth season is the autumn season.



the thoracic organs were found healthy as also were  
 the intestines & kidneys of both sides. The ovaries were  
 enlarged, the fallopian tube of the R. side had  
 ulcerated off from the uterus, while a considerable  
 deposit had taken place in that of the left side. The  
 fundus of the uterus was much enlarged, &  
 the its posterior portion softened & impregnated with  
 a thick viscid fluid, of a dirty brown color  
 which could easily be squeezed out by making  
 pressure with the fingers. The O. uteri was open  
 & distended, its margins ragged & ulcerated, the  
 cavity of the uterus was also enlarged, & was filled with  
 a thick fluid, fetid odor. The upper portion of  
 the vagina was much ulcerated. Upon  
 squeezing out from the cut fundus  
 uteri, a portion of the fluid it con-  
 tained, & submitting it to the microscope,  
 I found it to present the appearance shown  
 at Pl. ~~III~~ IX. fig. 1. numerous







Cells were to be observed varying greatly in their shape & size,  
 some being round, some oval, and others broad and  
 flat, with a swollen tailed extremity; these cells  
 were larger than those occurring in most cases of  
 Cancer, except in those of rapid development  
 in an advanced stage; they measured from the  
 $\frac{1}{4000}$  to the  $\frac{1}{2000}$ " - part of an inch in diameter, and were possessed  
 of the oval nucleus with the  $\frac{1}{3500}$ " - part of an inch in length.  
 (See plate IX figs. 1, 2, 3, 4), the nucleus varied however  
 in proportion to the size of the cell; a number of the  
 cells possessed however in addition a nucleolus, appearing  
 merely as a granule in the interior of the nucleus.  
 These cells all floated as it were in a sea of  
 granular matter - I observed also several pedunc-  
 cells, see fig. IV - Upon examining the more solid  
 parts of the fundus uteri, cysts filled with cancer  
 cells were to be seen, occurring in the fibrous stroma  
 of the uterus, fig. IV - These cysts were about the  $\frac{1}{500}$ "  
 part of an inch in diameter and about the same depth.







And were formed by the interlacement of the fibres of the ordinary white fibrous tissue. The cells filling these apertures when carefully examined be found to contain nuclei, compared with the other cells, however they were of small size, being only about the  $\frac{1}{2}$  of the  $\frac{1}{2}$  of the h. in diameter.

This case is reported at length in Med. Exam-  
for Decr 1857.

Case. 1857 April 5<sup>th</sup> Ex<sup>d</sup> a polypus of the nose,  
which has returned after 4 removals. Found,  
fibres, and fibro-plastic cells. Also some  
cells, resembling cancer, but yet I could  
not make up my mind as to its being  
positively cancer. I am inclined however  
to call it so. See plate IX  
figs. 5 & 6.







Case. 1881 Mch. 27<sup>th</sup> S. Plummer removed at  
 clinic of Jeff. Med. College, a tumor situated directly  
 over the left parotid gland of a man at about  
 40. Upon Examination I found the tumor  
 to be such as is represented at Plate X. (figs  
 1-2) at fig 1. are seen fibrous cysts filled with the  
 cancer cells, these cysts being about  $\frac{1}{8}$ " of an inch in diam.  
 cancer cells also of various sizes are to be seen. at fig 2  
 we see the appearance of the fluid squeezed from the tumor.  
 Of the history of this case I know nothing, neither do I  
 the result of the operation.

---

Case. 1881 May 15<sup>th</sup> received from Dr. Collett of Phil<sup>a</sup>  
 a specimen of cancer of esophagus. The <sup>esophageal</sup> cardiac orifice  
 of the stomach was almost entirely obliterated, the walls of  
 the cardiac end of the stomach were thickened, & hardened,  
 & the esophagus itself for the space of 3 inches above the  
 stomach, was very much thickened, all the coats,  
 participating alike in the lesion. I examined this







Specimen most carefully (see plate X. figs 3 & 4.) at  
fig. 3 we have fibrous tissue, and cancer cells, also chrysolite  
of chloride of sodium - at fig 4, Epithelial cells, Cancer cells,  
and fibrous tissue, highly magnified. - The history of this case  
was the same as that of all those cases of Gastric  
Cancer. The patient sank though Whentston

Case 1877 Aug 22<sup>nd</sup> I rec<sup>d</sup> for Examine fr. Dr. Pallyer  
A portion of the Pancreas removed at autopsy & Exam<sup>d</sup>  
fr. the father of Dr. Whentston, who had suffered severe  
abdominal symptoms for some months. The mass  
was very much decomposed owing to the heat of the  
weather, but yet I feel satisfied that ~~the~~ I was  
able to make out distinctly, what had been Cancer  
cells, see plate X. figs 5 & 6. - The mass  
was necessarily somewhat indistinct, in fact  
being in an advanced stage of decomposition.  
Cancers of the Pancreas are comparatively  
rare, or at least few have been reported.







Case. 25<sup>th</sup> June 1877 rec<sup>d</sup> from Dr Logan of this city, specimens taken from an arm amputated at the shoulder joint, by him, the day previously - Cancer supposed to be the cause. - The History of the case, was I think that the patient had rec<sup>d</sup> an injury on the arm from a fall, & that gradually a tumor developed itself about the middle of the Biceps muscle, - Upon removing the integuments, it was found that a large deposit of a softish matter of whitish color had taken place, not only Extensive to the surface, but also in its interior, extending the whole to a mass shell - This deposit was infiltrated under the muscles, & under, & between them in every direction. Upon Examination I found the appearance depicted at plate XI figs. 182. - large cells, about 1/200<sup>th</sup> of inch in diameter, faint, yet distinct, dotted, and most nucleated, but not all - at fig 3 we have the disorganized Muscular fibre, & also the same cells - at fig 4, we have stromal cells, more nucleated, & small



1898

This cana I would consider one of the Colloid class.



in size, about the  $\frac{1}{2}$  size of the  $\frac{1}{2}$  inch. These cells were found in the interior of the blood clot, - my attention was drawn to this point by Dr. Ellis Waller, who supposed them to be the nuclei of <sup>the</sup> "layer cells," developed in the clot, (as in the lymphatic system, existing at a certain point in the clot) as a Mastoma - I am inclined to adopt this opinion, although I have never detected cells in clots in any other case than this - The wound ~~the~~ healed well, but the patient - died in August - following the operation. Upon post-mortem examination - <sup>almost</sup> all the glands of the body were found enlarged, particularly those in the ~~lower~~ abdomen & cavity.

The deposit (although I had not an opportunity of examining it) was of precisely the same character as that described above. - This case is one of great interest. It speaks volumes with regard to the propriety of operations for removal of certain cancers -







Case 1880 Nov 18<sup>th</sup> Exam with Dr. Keller a cancer  
of breast removed by Dr. Pancoast from a lady in  
private practice - of the history I know nothing.

At Pl. XI, fig 5, I have drawn at (a). Gland cells.  
at (b) cancer cells of all sizes. at fig 6.  
(a) fat vessels, (b) plasma cysts filled with cells.  
C. Cancer cells.

Case, Mrs. Vandeventer, at 60. On <sup>1887</sup> Feb. 1. 5.  
Pancoast removed at Clinic a portion of his lip. Dr. Halsted  
examined, and pronounced it true cancer. On March 19<sup>th</sup>  
he again presented himself at the clinic. The submax. of  
left side having become involved, this was removed by  
Dr. Pancoast. I found on Exam. gland cells. Plate XII  
(b), fig. 1. Cancer cells, etc. comp. gran. capsules etc. - True  
cancer it will be seen. I lost sight of the case till  
Dec 1887. I then found he had died in Nov. 1887, the tumor  
having returned in the neck. - The patient died under  
the care of Dr. Thomas. In a full acc<sup>t</sup> of this case see Dr. Halsted's thesis.







Case. Henry Clifton, ab. 13. Has had for a year  
 a tumor involving all the glots. of Head, upper &  
 lower jaw. threatening Suffocation. This did take  
 place. I made the post. mort. Exam<sup>n</sup> Nov 27. 1850  
 I found that the right upper & lower maxillary bones,  
 the glands of the neck, the Parotid, Submaxillary, &  
 Thyroid glands were all involved - Upon  
 microscopical Examination, I found such cells as  
 I have drawn at plate XII. figs. 2, 3, & 4 - at fig 2  
 large Epithelial cells from mouth of Cancer abs.  
 (b). at fig 3. Cancer cells, at globules &c. at  
 fig 4. the same magnified 450 diameters. This  
 was a most marked case of Cancer.

Case. 1851 June 21. Received from Dr. Hewson, a section  
 of Breast removed by Dr. Pease at hospital for  
 of the history of case I know nothing. Upon Exam<sup>n</sup>  
 I found what I have represented at Pl. XII fig 5 & 6  
 Fig 5 (b) glands cells, (c) cancer cells - Fig 6. more more highly







magnified, & (B) lymphatic - (C) gland cells.

Case 1837 Feb 9 rec<sup>d</sup> from Dr. Pancoast a  
 Breast for Examination, removed by him in private  
 practice. I do not know the history of the case.  
 Upon studying the case it was discovered to be  
 Epithelial in its character, a very rare form  
 of Breast disease. (See Plate XII) fig 1. / a. fol  
 cells. (b). Epithelial cells. (c) Crystals of Cholesterol.



18  
1810

My dear Sir,  
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the matter of the ...  
I am sorry to hear that you are not well, and hope that you will soon be able to resume your usual avocations.  
I am, Sir, very respectfully,  
Your obedient servant,  
J. M. Smith



Calc. 1837 June. rec<sup>d</sup> from Dr. Sarraich a tumor  
presenty what is generally called.



7.11.11

7.11.11

The 17th Nov. we had a very fine day  
and went to the park.



Case. Mr. Elliott, has had a Syphil-tumor  
 On his tongue for many years, within the  
 last year it had begun to Enlarge  
 Dr. Little removed it many times, every  
 day or two, at fig 3 ~~Plate~~ <sup>XIII</sup> we have  
 the appearance of the dried, the most superficial  
 cells, at fig 4, the fresh cells. Simple Epithelium  
 "

Case. 1887 Sept 13, at hospital Dr. Fox  
~~Remo~~ amputated the glans penis of a man  
 about 45. The tumor was as large as an Egg.  
 I ~~got~~ obtained nearly a small portion of  
 the External surface, It presented nothing but  
 Epithelial cells and granular  
 matter. From what I saw I  
 am disposed to believe that the Tumor  
 was a mere hypertrophy of Epithelium,  
 And not a cancer. I believe Ricord has  
 treated such tumors by paring them down.







Case, 1837 Aug 28. Recd from  
 Dr Hancock through Mr Jeff. An  
 Epithelial sac from abdomen - A simple  
 cyst, lined with Epith! cells, & filled up  
 with cells of the same. See  
 plate XIII fig 6. (b) chylous, of chylous  
 A. Epithel. cells form, membrane of cyst.  
 Irregular.

Case. 1850 Nov 6. Dr. Miller removed  
 at clinic a portion of Epithelial tumor  
 of Tongue precisely similar to that  
 of Mr Elliston's tongue recorded on  
 Page

The same drawing will  
 serve for both tumors. Therefore see  
 Plate XIII, Figs 3 & 4.

" " "







Case H. Y. L. at 65. - presented himself at Clinic of Jeff. Med. College with a large red, vascular tumor on the left lower Eyelid. The tumor was increasing rapidly. The patient (a farmer) stated that he had had a tumor of the lip removed some months since. The tumor on Eyelid was removed by Dr. Parson. - In drawing see plate XIV. figs 1, 2, 3. - Fig 1 shows Cancer cells in abundance, Cancer Epithelial cells. (Note figs 1, & 2, represent mostly the fluid of tumor). At fig 3 we have the lower portion of the mass, showing fibrous tissue and the same cells we have seen above -

I believe, indeed I am sure, that this tumor is cancerous, but by this brevity some doubt seems to be entertained. As to ~~the~~ true nature of







C. A. K. Susan — a negro woman, at 30.  
 A patient of Dr. Coates presented herself at Clin.  
 of Gen. C. with a tumor of R. Breast, which had  
 existed for several months, pain sharp and increasing.  
 The Breast was removed by Dr. Purcutt — The  
 tissue appeared dense and hard. I examined the  
 specimen most carefully in connection with Dr. Keller  
 & Ad. Henson. The cells I found I have shown at  
 Plate XIV fig 4. <sup>25</sup>at (a) Small cells, non nucleated  
 but granular, about  $\frac{1}{2}$  width of tubular channels. They were not  
 Epithelial, nor glandular, nor were they apparently  
 granular for tubules. I have not therefore  
 been able to come to any conclusion. Dr.  
 Keller believes it to be a species of Hyaline  
 Cancer — This tumor is interesting inas-  
 much as there are no positive cases  
 of Cancer on record in the negro —  
 The drawings are very exact.







Case 1877 Oct. 18. Mr. J. C. Morris brought  
 Me a Section of Breast removed by Dr. Wilson  
 at University of Penna clinic - No history afforded  
 Me - The Tumor proved cancerous - See  
 plate XIV fig. 6. fibrous tissue, cells,  
 not globular etc. etc

---

Case. Miss G. at 21. Has had for some  
 months a small tumor, a rather a large mole  
 on the left side of face. This tumor every  
 a disposition to enlarge and to ulcerate, it  
 was removed by Dr. Sutter Oct. 28. 1877.  
 Meets Epidermic - See plate XV, fig. 1. see  
 this see Dry Spred Epithelial scales

---

Case. Kate H. at 18. presented herself at  
 Clinic of Dr. C., with what appeared to be  
 an Enchondromatous tumor on the front of  
 knuckle under the nail. This Tumor was



Page 1011  
The action of the ...  
The ...  
Plate XIV  
The ...

The ...  
The ...  
The ...  
The ...  
The ...  
The ...  
The ...

The ...  
The ...  
The ...  
The ...



removed, and the fragments proved to be merely  
an unwounded, increased secretion of Epith. cells,  
under the root of the nail of the toe, the nail  
compressing the mass gave it an almost cartilag-  
inous hardness. See plate XV. fig. 2.

---

Chas Ireland, At 55. Came to clinic of St. C  
with an enormous tumour of lower lip, apparently  
Epithelial - Has existed for 2 years, but never  
caused much pain till lately. The whole  
lower lip was involved. -- For figures see  
plate XV fig 3 & 4 - at (a) fig 3 we have  
a hair shown, (b) mucus, (c) Epithelial  
cells, (d) - cells such as are found in most cases  
of Epithelial growth, before described - at fig  
4 we have (a) these same cells, (b) cells which  
believe to be cancer, (c) fibrous tissue. My  
friend M. da Costa considers this tumour to be  
merely Epithelial, I cannot quite agree with







him. he however did not see any cells such as I have drawn at (b) fig 4. - I will not positively state that this tumor is cancerous - although I think that it probably is -

Its history I should say is certainly not cancerous -

Case No. 9. I. at 50, a woman has had for some 6 months a tumor of jaw, apparently Epithelial - removed by Dr. Pincus - Oct-17<sup>th</sup> 1897. at Clinic I.M.C. - The tumor extended far back behind the half arches of palate, & down into throat. - See plate XV fig 5, A. Microsc. (b) Epithelial scales, c. peculiar small non-nucleated cells. This tumor is only an Epithelial growth

Case 1897 No. 8. At Clinic I.M.C. Dr. Miller removed a mole from the forehead. - Merely Epidermic - The Bull







If a hair is so beautifully shown that I have copied it. See plate XV fig 6.

---

Case, 1881 Sept-13, at hospital Dr. Fox removed a cancer of lip of 2 years standing from a woman of 60 years - On Exam<sup>n</sup> I found the cancer cells, Epithelium of skin. See plate XVI fig 4. This case is more particularly described by Mrs. de Costa in his thesis.

---

Case, E. V. at 60 years presented himself at Clinic of Dr. C. complaining of Hemorrhoids. He stated that he lost large quantities of blood, & was desirous of having the tumor removed - This was accordingly done by Dr. Pancoast on Sept-13-1887 of Dr. C.'s Clinic. The tumor was about the size of a small grape, soft to the touch - crushing down



1874

It is a very old, but I have not seen  
before. It is the first of the series.

Case. The first of the series is the  
most common of the series. It is the  
first of the series. It is the first of the  
series. It is the first of the series. It is  
the first of the series. It is the first of  
the series. It is the first of the series.

Case. It is the first of the series. It is  
the first of the series. It is the first of  
the series. It is the first of the series. It  
is the first of the series. It is the first  
of the series. It is the first of the series.  
It is the first of the series. It is the first  
of the series. It is the first of the series.



Under the fingers, and very vascular. It had  
 occupied only 4 weeks in attaining its present  
 size. The mucous membrane of the Rectum,  
 at the point at which the pedicle of the tumor  
 was attached, felt hard, & schierous like in  
 its channel. Judging from External appear-  
 -ances the tumor was apparently malpighi-  
 but its probable return was stated to the clasp.  
 Upon squeezing out the fluid of the tumor &  
 Examining it I found it to contain many  
 cancer cells, (See Plate XVI fig 3. a).  
 In the more solid part of the tumor, some  
 although not very much fibrous tissue  
 could be found. This case is reported  
 in full in M.D. No. of Medical Exam.

---

"

---







Care (I have mislaid my notes of this case & have  
been obliged to quote from memory.)

St. Y. L. at about 30 presented  
himself at Clinic of S. M. C. with a  
Lupus, involving the eye & <sup>conjunctiva</sup> ~~half~~ <sup>adjacent</sup> tissues - Removed  
in Feb. 1887 (I think). The mass presented  
the appearance I have given at Plate XXV  
Fig. 1. (A) a portion of the optic nerve.  
(B) fibrous tissue & ~~can~~ <sup>can</sup> ~~cal~~ <sup>cal</sup>.

1000 Cane cut.

At fig. 2 we see compound  
granular cells, cancer  
cells, the nuclei, granular &c.

The deposit - had also taken place in the Interior of the Eye - the

I regret that having  
mislaid my notes, I am not  
able to furnish a full account  
of that case.

~~~~~ u ~~~~~


10/10/10

Dear Sir,
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the matter of the
of the same. I have the honor to inform you that the same has been forwarded to the proper authorities for their consideration.
I am, Sir, very respectfully,
Your obedient servant,
J. H. [Signature]

Case. Frances Carpenter, (Aet. 30. Has had a
Cyst on the lower lip for 13 years - removed
by Dr. Tompkins Nov. 6th 1890. Upon
Examination found to be a simple Epithelial
cyst. (See plate XVI figs V & 6)

Fig 5. (a) Crystals of cholesterol. (b) Old
cells in the center of mass. c. fresh living
cells. fig 6. Crystals of cholesterol

" " "

Case. 1891 June 21 Dr. Pancoast - at clinic
removed from a patient about 70 years old
a tumor of the lower maxillary bone, of
the right side. - The tumor had been some
months in forming + involved not only the
bone, but also the surrounding tissues.
Upon examining the specimen I found
the appearance such as is represented
At plate XVII figs 5, 6 & 7. Cancer cells,
Epithelial cells + fibrous tissue as we have seen before
and also some peculiar epith. cells for which see figures 8

1870
The first of the series of lectures
on the history of the
British Empire was given
on the 1st of November 1870.
The subject was the
History of the British
Empire from the
Conquest to the
present time.

The first of the series of lectures
on the history of the
British Empire was given
on the 1st of November 1870.
The subject was the
History of the British
Empire from the
Conquest to the
present time.

Case. At plate XVII figs 1-4 are seen the cells found in a tumor involving the bone of the lower jaw (This specimen was left anonymously at my door & I do not know the history)

At fig 1. We have Bone healthy, as it appeared when dried; also some cells floating free. At fig 2. Cancer cells of large size, singly & doubly nucleated. Figs 3 & 4 Epith.^l cells, fat-vesicles fibrous tissue &c. This specimen is one of what might be called true osteo-sarcoma, or rather osteo-carcinoma, i.e. cancer involving bone. This subject of cancer in bone has been at various periods much mystified, but it seems to me to be simple enough - considered, as cancer would be in any tissue

" " " "

1870 Dec. - Case. D. T. S. Mütter
 removed a polypus from at clinic of M. C.
 Hk. had been removed, & had returned several times.
 a good deal of ulceration had taken place
 in the nasal cavity. See plate XVII figs 1 & 2
 fig 1 showing fibrous tissue cysts & cells, - fig
 2 showing the same more highly magnified
 I was inclined to believe this tumor
 to have been cancerous, but I will not
 be positive -

Case. 1870 Oct = 23rd. At Clinic D.
 Mütter removed from Peter Dunbury at 42,
 an Epithelial Tumor of the lip. See
 plate XVIII fig 3. Epithelial cells. / at -
 small oval cells, which seem to be peculiar
 to Epithelial growths, & some cysts made of
 cells - rap - I think, that to say
 the least, this tumor is suspicious -

17/10

1810 - 1811 - 1812 - 1813 - 1814

1815 - 1816 - 1817 - 1818 - 1819

1820 - 1821 - 1822 - 1823 - 1824

1825 - 1826 - 1827 - 1828 - 1829

1830 - 1831 - 1832 - 1833 - 1834

1835 - 1836 - 1837 - 1838 - 1839

1840 - 1841 - 1842 - 1843 - 1844

1845 - 1846 - 1847 - 1848 - 1849

1850 - 1851 - 1852 - 1853 - 1854

1855 - 1856 - 1857 - 1858 - 1859

1860 - 1861 - 1862 - 1863 - 1864

1865 - 1866 - 1867 - 1868 - 1869

1870 - 1871 - 1872 - 1873 - 1874

1875 - 1876 - 1877 - 1878 - 1879

1880 - 1881 - 1882 - 1883 - 1884

1885 - 1886 - 1887 - 1888 - 1889

1890 - 1891 - 1892 - 1893 - 1894

Case. 1857 Oct = 27th Received from
 Dr. Schively resid^t Phelps a 1 1/2 lb. tumor
 from fluid from an ulcer on glans penis.
 I Examined it & found it - cancerous - See
 plate XVIII fig 4. This was also Ex^d
 by Mr da Costa & Dr. S. W. Mitchell &
 Both agree with me in pronouncing the
 tumor cancerous -

Case. In Spring of 1857 (April I believe) Dr. Mitchell
 removed from the groin of a patient (Mr L.)
 A gummy concretion, which been many years
 in depositing. I Examined the tumor microscopically
 & my friend Mr da Costa tested it chemically

The results of the Examination,
 will be seen at plate XIX
 Sep 1, 2 & 3

~~~~~ " ~~~~~







Case. Thomas Andrews At 30., Marter.  
 In Feb 1880 he perceived a swelling in right testicle  
 & in the April following he experienced considerable  
 pain of an aching character. This continued  
 all summer. At the commencement this  
 tumor was soft, but in April & May it became  
 hard. On Oct-26-1880 the right testicle  
 was removed by Dr. Mütter at Clinic S.M.

The patient being of a hemorrhagic diathesis  
 great hemorrhage followed. During the  
 Spring & Summer of 1887 the deposit returned  
 in the left testicle, which was removed Oct-  
 11-1887 by Dr. Mütter at S.M. Clinic.

I examined both testes. The one removed in  
 1880 I injected with Ether & Vermillion.  
 The non vascularity of testicle was  
 well shown, proving it a deposit & not a  
 growth. The preparation is in the Museum  
 of Dr. Mütter. At Plate XX figs 1, 82







I have drawn the microscopical appearance of the deposit. Fig 1. is that of the right testicle removed in 1830 - At fig 2, the deposit in left testicle is shown. It will be observed they are precisely similar. Small cells about  $\frac{1}{2}$  500<sup>th</sup> of inch in diameter, for the most part - non-nucleated, dotted & granular in appearance, floating among an immense number of granules.

Cal. 1852 January 3<sup>rd</sup> Made a Post. Mat. of a Regt Woman at 70. Found <sup>heart</sup> clots on both sides of heart, extending into all the vessels, Left Lung spotted & with milky tubercles, &c. &c. Upon examining these spots of tubercle, I found the appearance shown at the ~~fig~~ XX fig 3. Cells of tubercle & granular matter. This tubercle being in an incipient stage, many a most of the cells were nucleated, differing in that respect from the preceding case —







1877 Nov 19<sup>th</sup>, N. at 19 - a patient of Dr More-  
-house, has had a tumor of the size of  
a Shilling on the skin - Has had the tumor 6  
months removed by Dr Mütter - I found it only  
Epithelial - my friend da Costa pronounced it  
cancer - most probably - On Dec 15 the  
tumor returned in the old place - removed  
by Dr M. at office - Examined it - again  
but not able to make up my mind - see  
plate 3. fig 6. Epithelial cells, fibrous tissue,  
& small oval cells, For a full description  
of this Case, see Mr da Costa's thesis.

Case. 1870 Nov 6<sup>th</sup> Stephen Lees at 24  
presented himself at the clinic of H. M. O  
with a tumor of the Right Breast -  
The whole mass was removed by Dr  
Mütter and on Examination, I found it  
to be tuberculous, presenting the granules, and







cells of a low order of organization  
See plate XX, fig 4

---

Case, 1857 October 15<sup>th</sup> received from Dr  
Hewson M.D. physician at Penn<sup>a</sup> Hospital,  
two specimens of tumors, one of the lung  
and one of the intestines. I do not know  
the history of the case. See plate XX  
fig. 5 & C.

---

Case, 1857 Nov-21 Rec<sup>d</sup> from Dr. Schuch  
M.D. Physician at - Muckley Almshouse, a  
portion of a carcinomatous uterus, removed  
at a P. M. Examination. History of Case  
unknown - at Plate XXI. fig 1. (a) we see the  
cancer cells squeezed from the deposit - & laid  
into the ovary - (b) put. at (c) cancer cells,  
in the lower portion of the uterus - (d) fibrous  
tissue - fig 2 (a) cells perhaps cancerous







found near the os uteri. /b/ - can a - cell.  
 /c/ fibrous tissue - /d/ Caudated cells, #508.  
 The patient was a woman at 42 - Symptoms  
 all those of cancer - death occurred from  
 exhaustion. At the autopsy, all was  
 found healthy except genital organs.

Cell, Plate XXI fig 3 - cells from cancer  
 of rectum, given me by S. ad. E. Henson  
 1881 Nov 22. - No History

Case 1881. Dec 4 - S. Pancoast removed  
 in consultation with S. Parson a tumor of  
 the breast from Miss Cooke. At 35  
 The tumor had existed for 3 years & more, & until  
 March was only  $1\frac{1}{2}$  inch. in diameter, since  
 that period it has enlarged very much  
 the open fungoid ulcer formed, perfectly like  
 a mass as large as a walnut - from the side of  
 the nipple - Pain lancinating - axillary glands involved.







On one side of the nipple, what may be called  
 A fungoid growth had taken place since last  
 March, soft, & cerebriform. - This specimen  
 is now in the cabinet of the college of physi-  
 cians of this city. See plate XXI  
 figs 4, 5, & 6. - fig 4 (a) cancer cells  
 from soft part of tumor - (b) fibrous tissue -  
 c - peculiar cells (perhaps glandular -  
 d - Cancer cells - figs 5 & 6 (cancer cells).

————— " —————

Case 1897. Dec 6<sup>th</sup> Dr. Pancoast removed  
 from a lady Miss G. - a tumor involving  
 the mammary gland which had existed  
 for 6 months - Pain lancinating -  
 The axillary glands much involved, &  
 were removed by Dr. P.







The axillary glands were also removed. - See plate  
XXI fig 1 & 2. Upon squeezing out some of  
 the fluid of the tumor & examining it. I found it to  
 present the appearance shown at plate XXI fig 1  
 (a) - compound granular cells - (b) cancer cells. -

In the harder portion of the soft matter we  
 have such cells as are shown at c -  
 At fig 2, the structure of the axillary glands  
 are shown - (a) cells / perhaps Epithelial -  
 (b) glandular cells. - (c) free oil  
 globules - (d) is the structure of the  
 capsule - (yellow Elastic may / Band) /  
 (e) the fibrous structure of the tumor  
 Enclosing cell







Case Mrs. P. - a patient of Dr. Norris, of this city, some years ago received a blow on the breast, a few months ago, a tumor became visible, accompanied by lancinating pain. On the 15<sup>th</sup> Dec-1887 the tumor was removed by Dr. Norris. The cells found, are shown at Plate XXII fig 3. I believe them to be cancer, but am not positive. I do not think the tumor will return, that is to say, if any cancer do not return. I should think this was one of them. —

Case. 1880 Oct-12. Mary Portyke, at 71, a shoemaker, had removed from near the umbilicus, a hard, red mass, apparently malignant. Under the microscope found it to be Epithelial, & not cancer. This tumor had existed for many years. caused the pressure of a belt on the belly. See Plate XXII fig 4.







Case. A. Eklund a 35<sup>th</sup> student of Med. had removed from his left-fibula at the head, & adjoining the latter an Exostosis as large as a walnut. Which had existed for some years -

Microscopically - the Exostosis was found to contain internally a soft-mass, apparently Malignant, but found to be merely fat - as fat-veins, & free oil - Magnesian Acid Crystals were also found in abundance

Case. J. Y. L. at 75. Health good. Has had for 2 years a tumor on the Instep. Which lately has increased so as to render motion extremely painful - removed by Dr. Paracost - Decr 6<sup>th</sup> 1831 - Found it to be a multilocular cyst, filled with Epithelium & the loculi of the cyst communicating & extending up between the tendons into



1871  
The first of the year was a very dry one  
and the crops were much injured by the  
drought. The wheat was particularly  
suffered and the yield was very small.  
The corn was also much injured and  
the yield was very small. The  
cattle and sheep were also much  
suffered and the yield was very small.  
The sheep were particularly  
suffered and the yield was very small.  
The cattle were also much  
suffered and the yield was very small.

1872  
The second of the year was a very wet one  
and the crops were much injured by the  
flood. The wheat was particularly  
suffered and the yield was very small.  
The corn was also much injured and  
the yield was very small. The  
cattle and sheep were also much  
suffered and the yield was very small.  
The sheep were particularly  
suffered and the yield was very small.  
The cattle were also much  
suffered and the yield was very small.



the leg. In this case I refer to the  
 Drawings of case of Francis Carpenter  
 page 101. - The contents were exactly similar  
 Chrysalis of Cholesterin, and Epithelial  
 Cells

---

" "



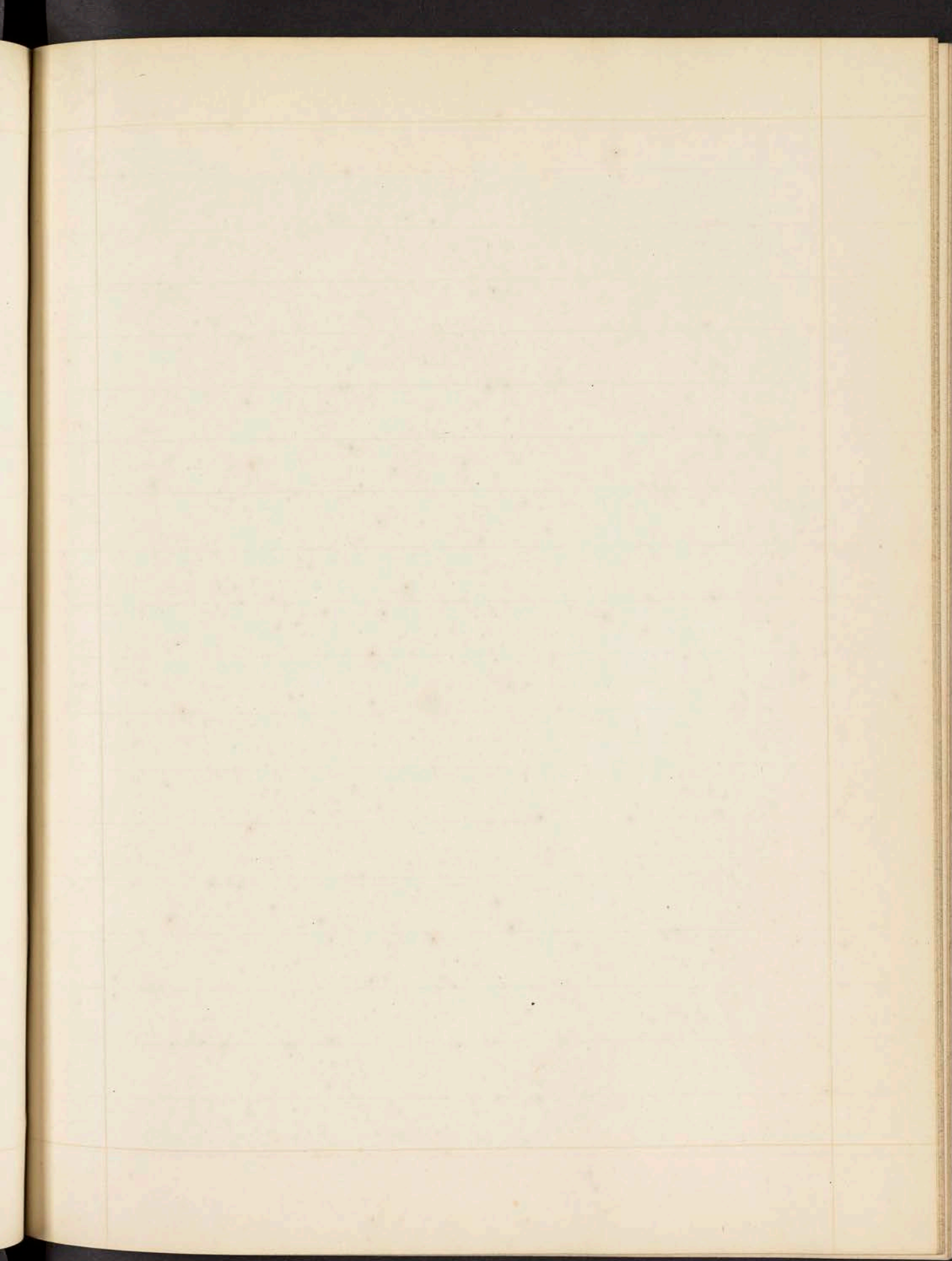
The top of the mountain is  
covered with a dense forest  
of trees. The forest is  
composed of various species  
of trees.

The forest is very dense  
and the trees are very  
tall. The forest is very  
beautiful and the trees are  
very green.

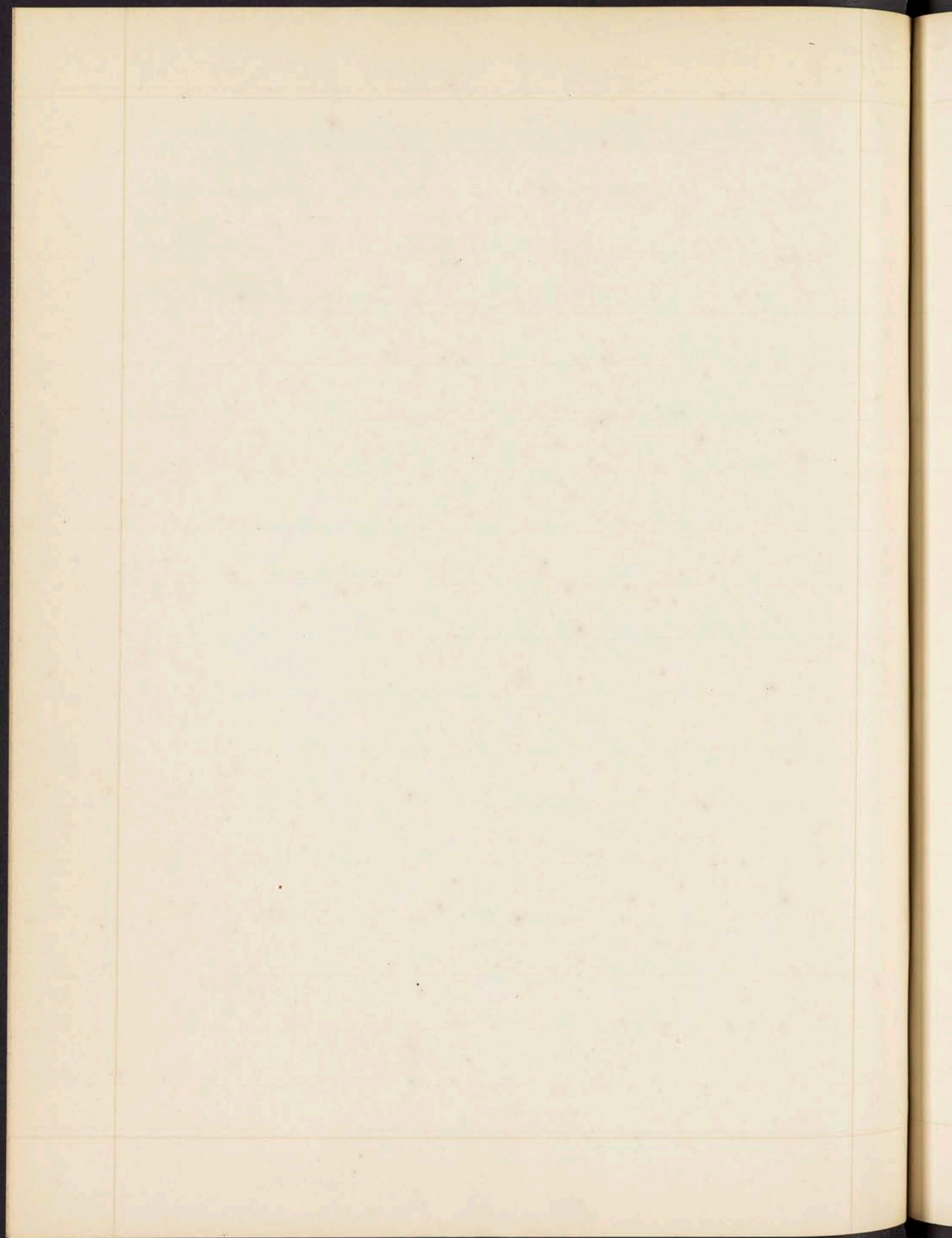
The forest is very old  
and the trees are very  
large. The forest is very  
beautiful and the trees are  
very green.

The forest is very old  
and the trees are very  
large. The forest is very  
beautiful and the trees are  
very green.

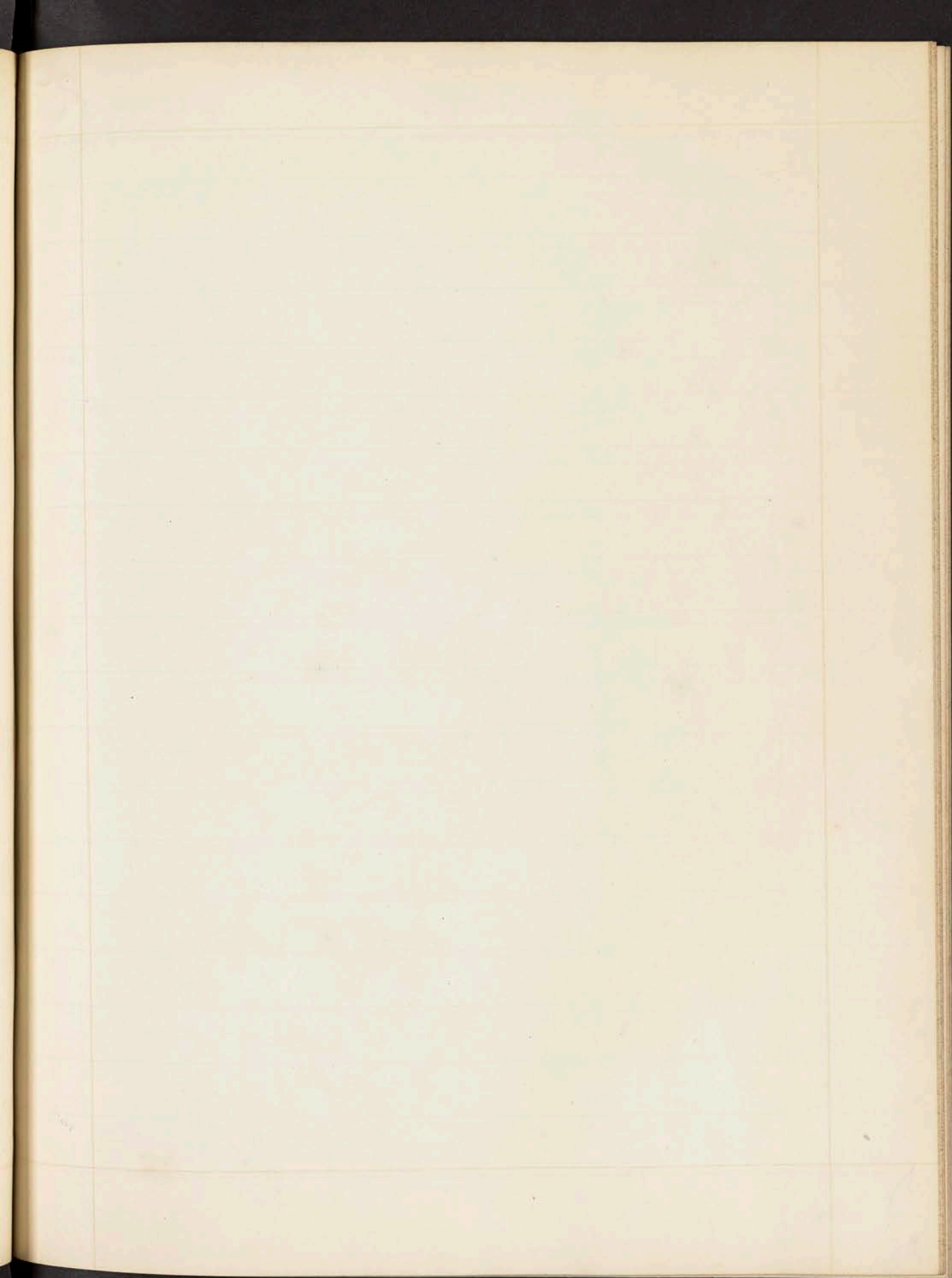




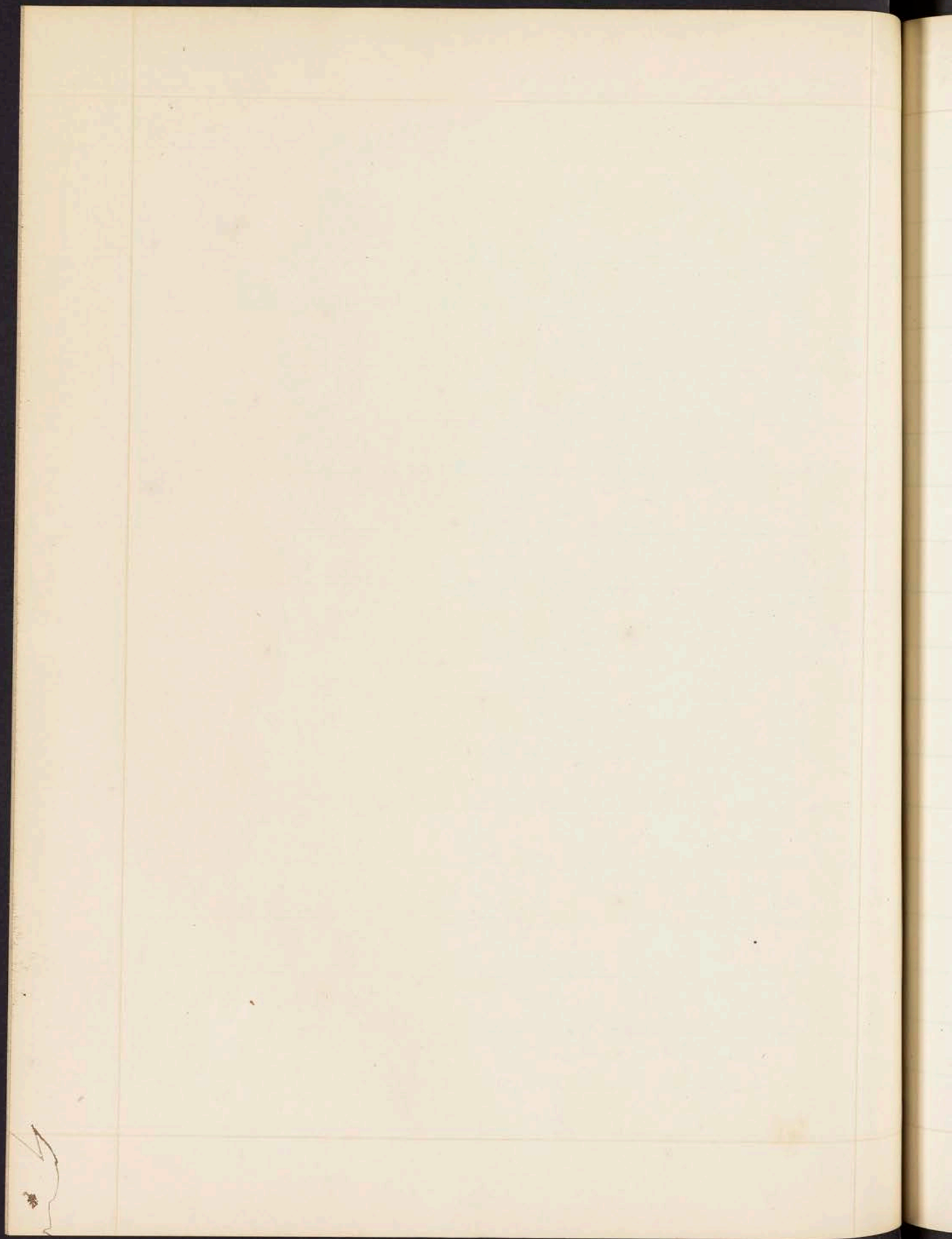




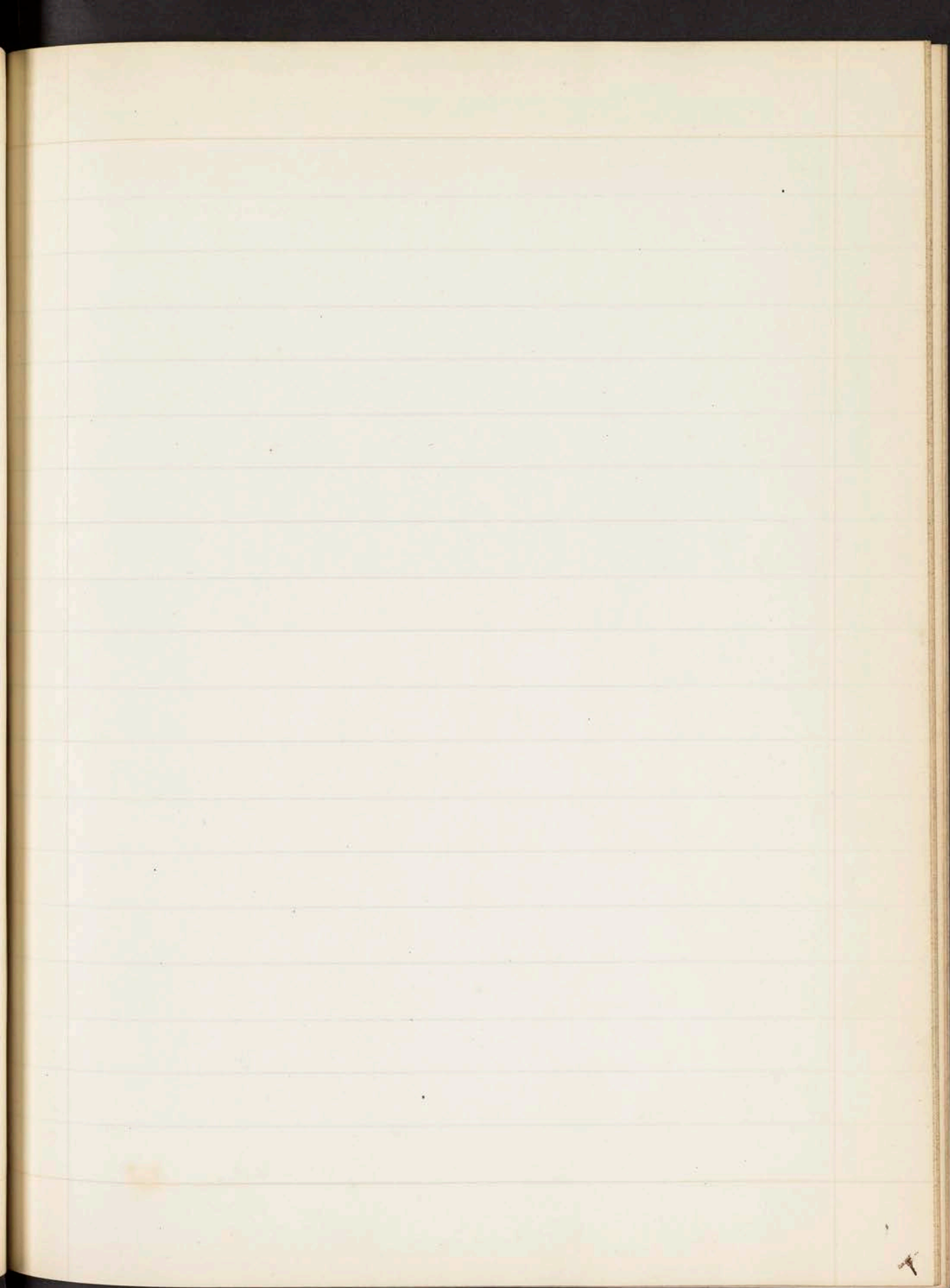




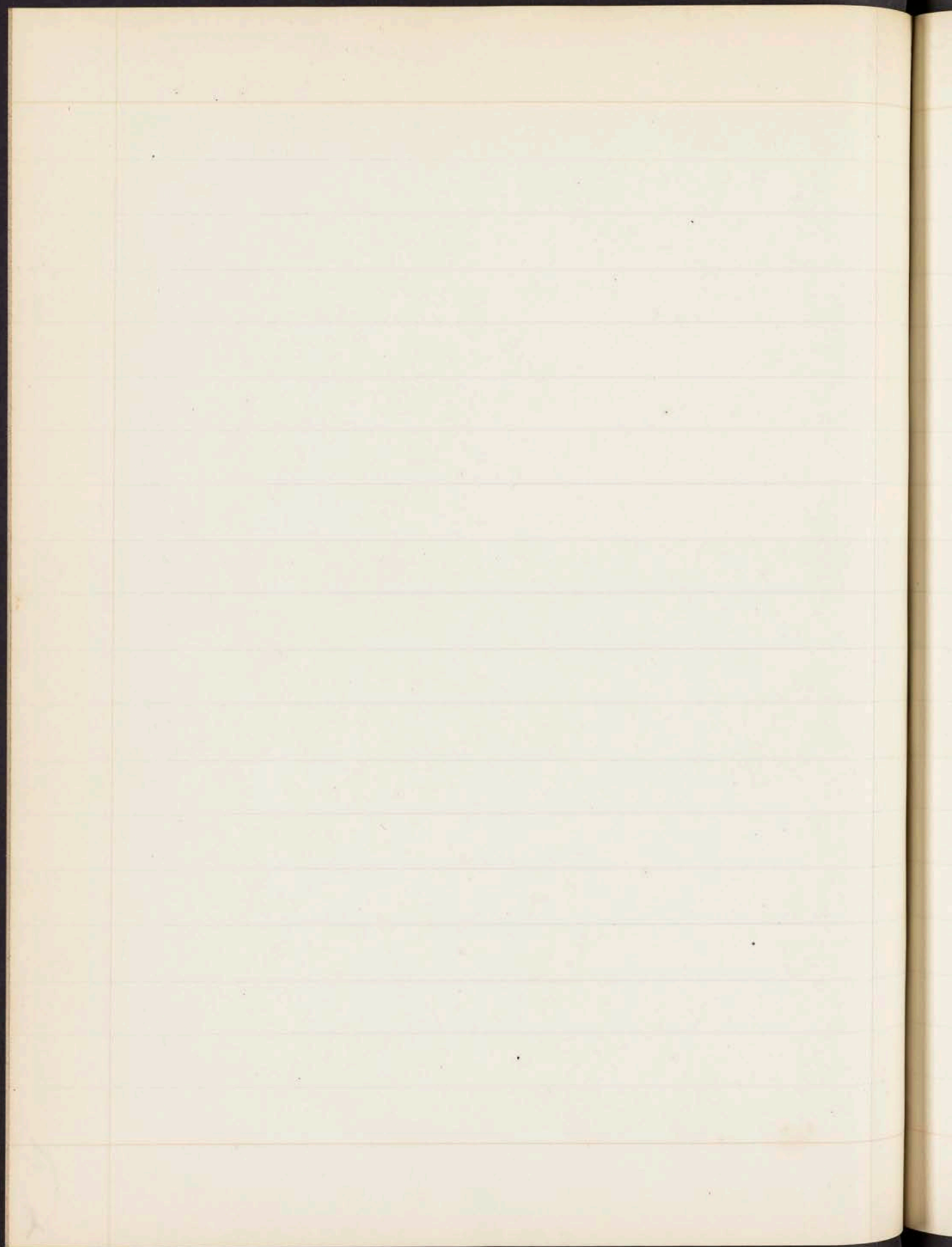




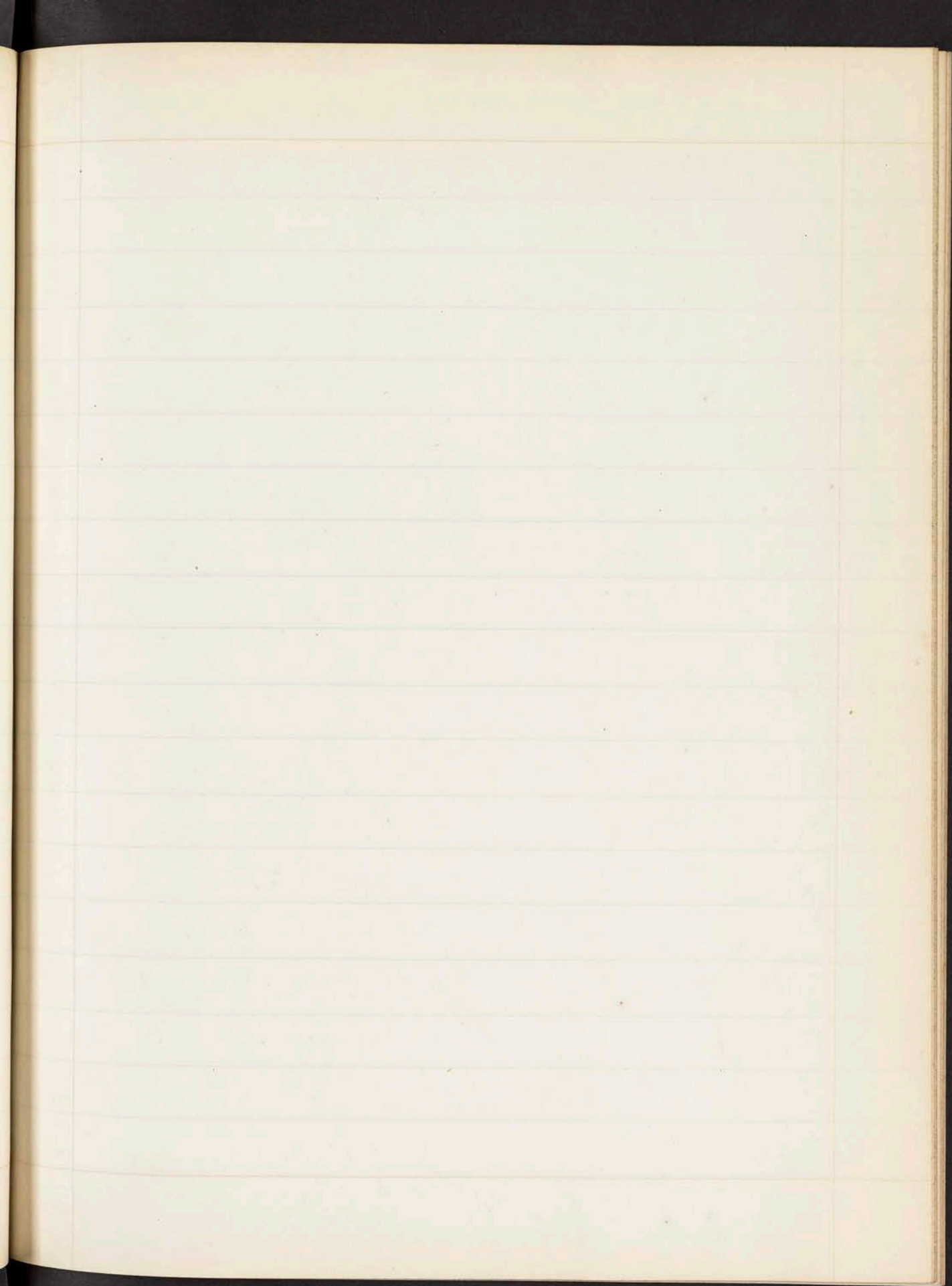




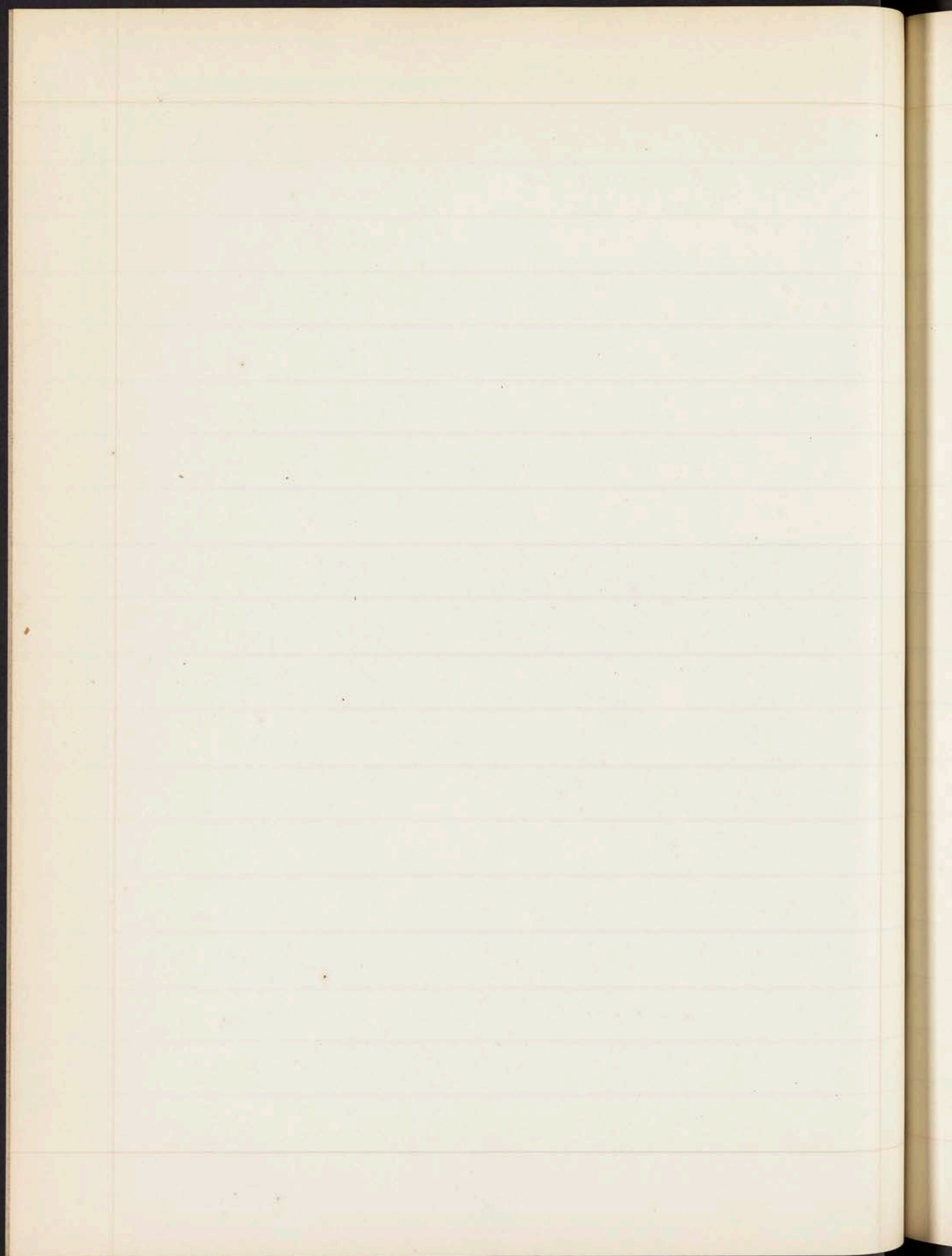




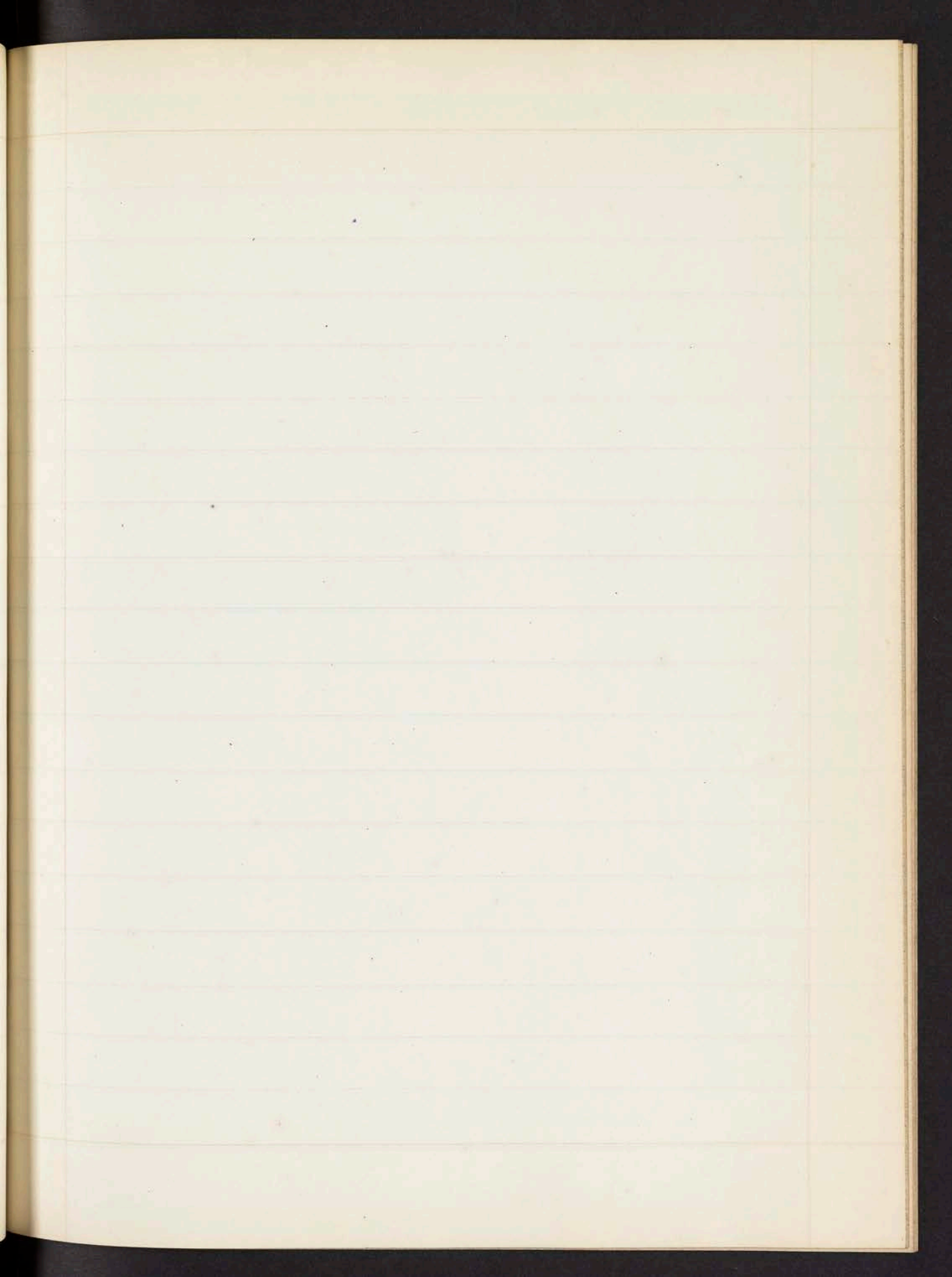




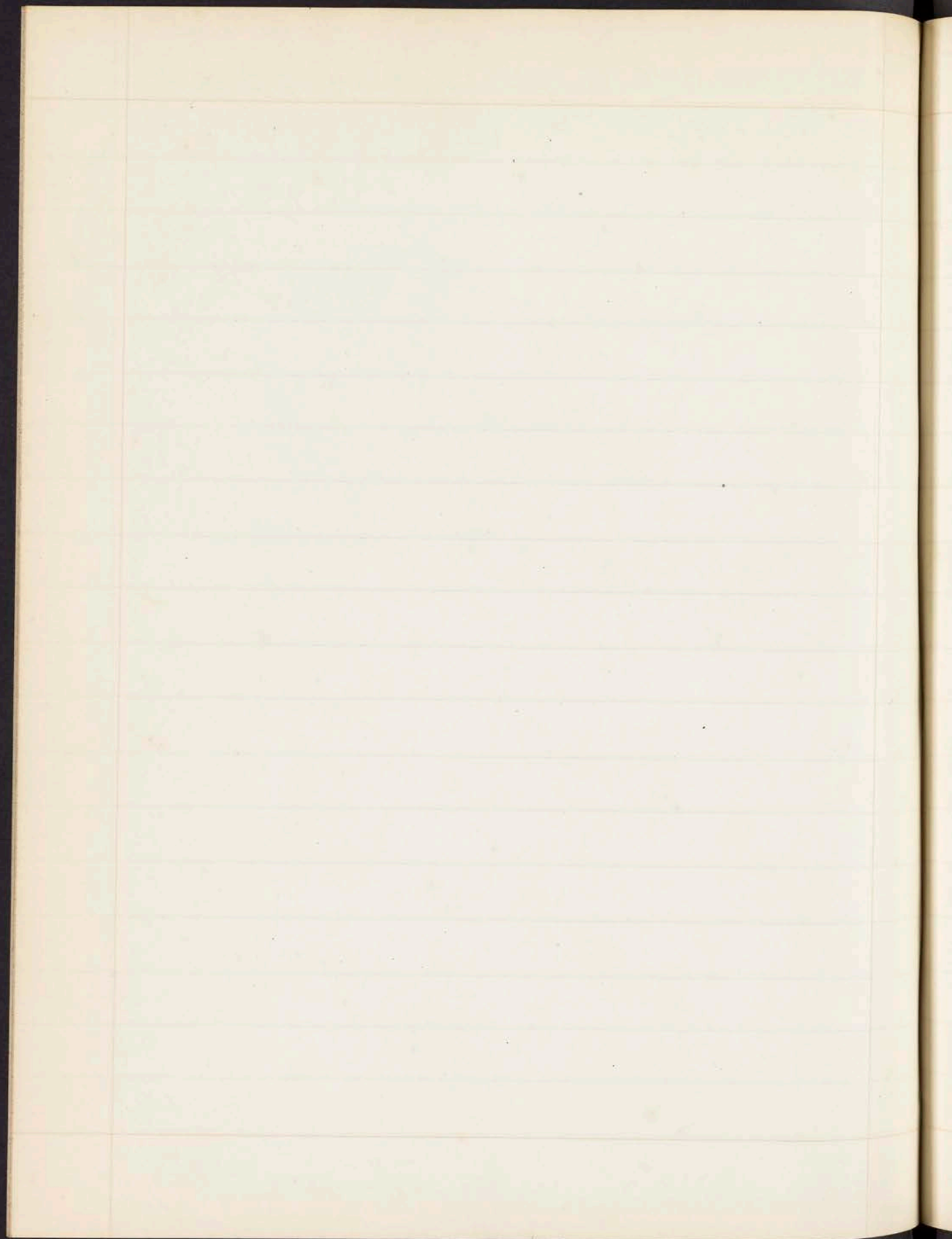




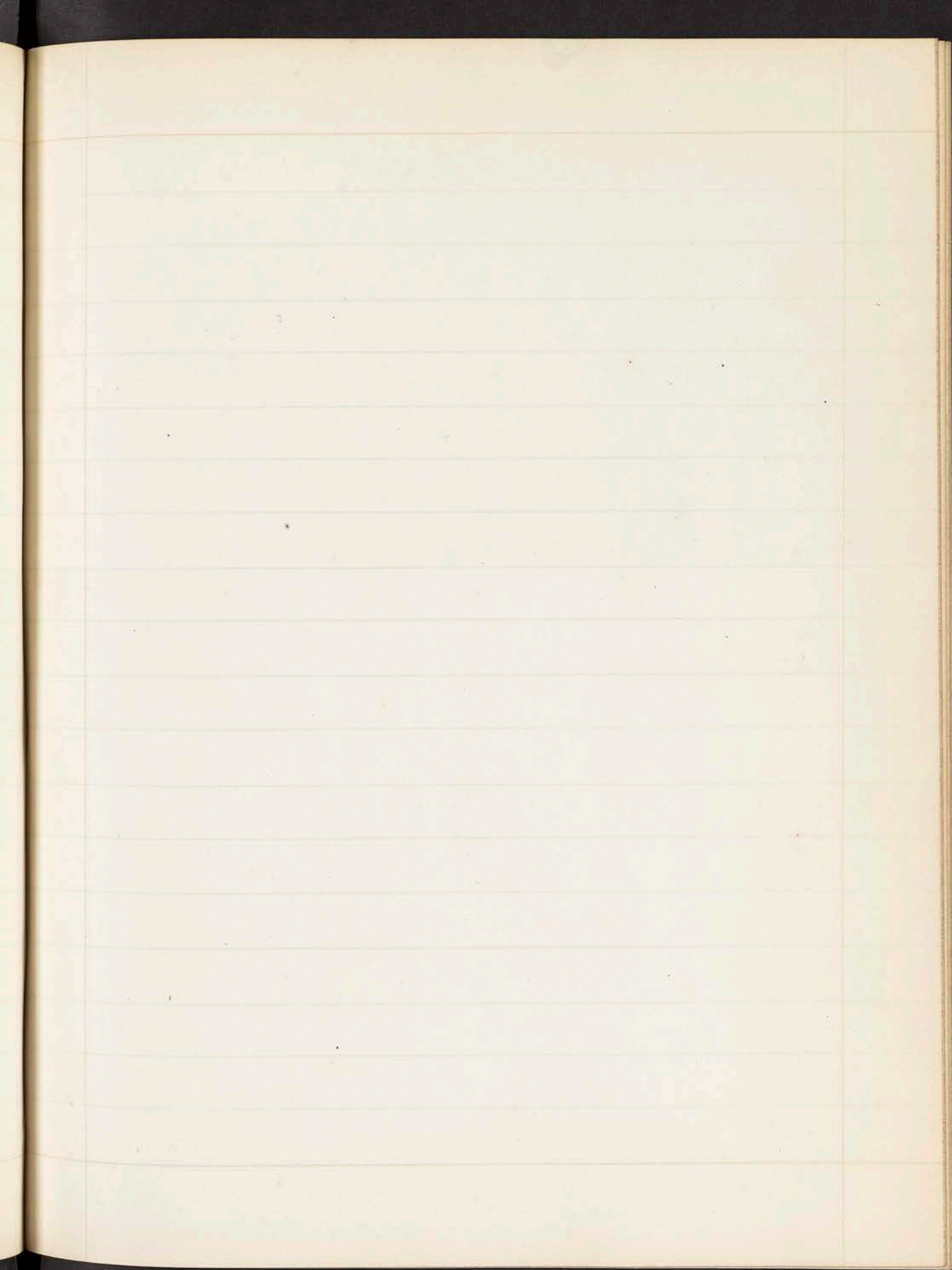




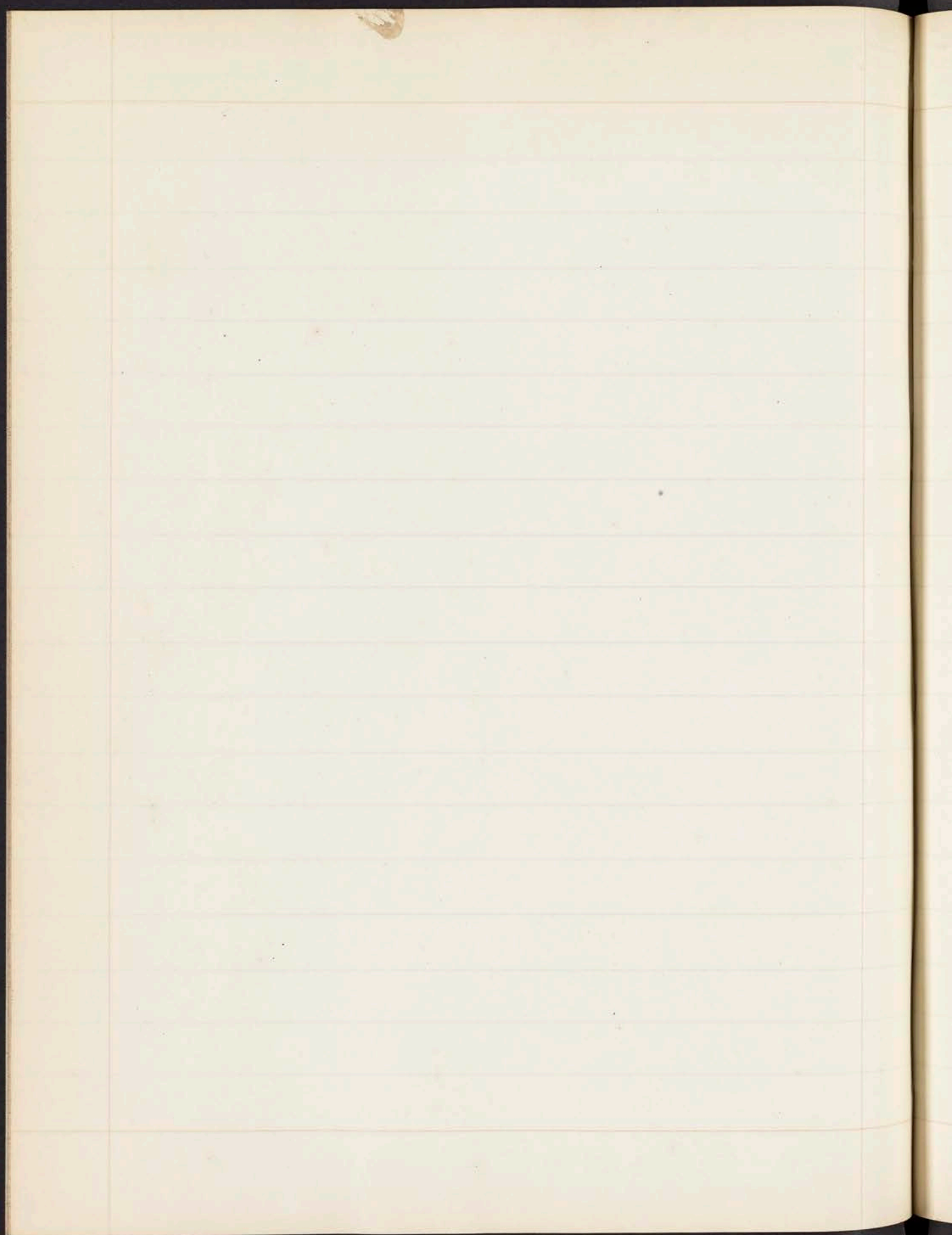




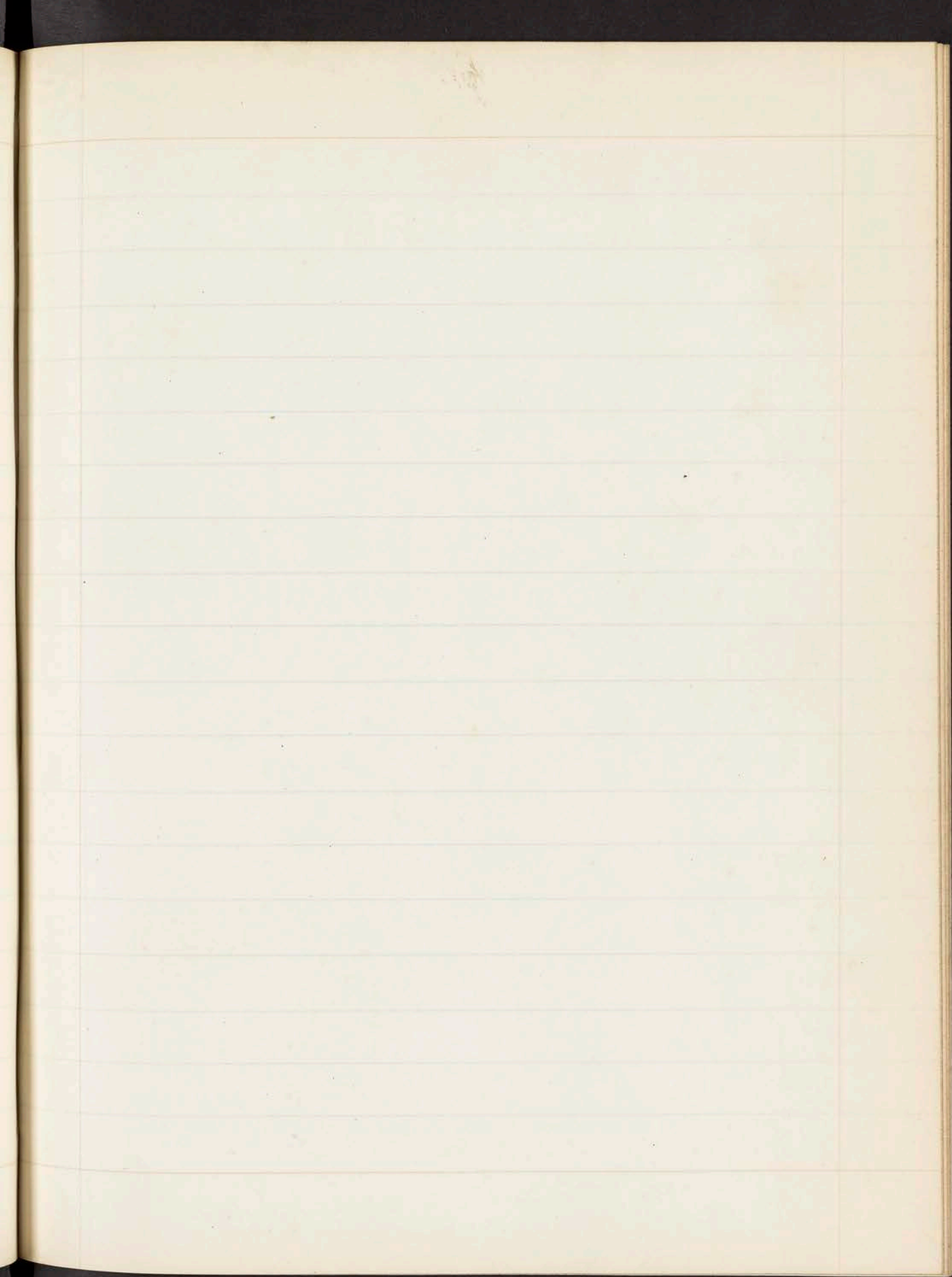




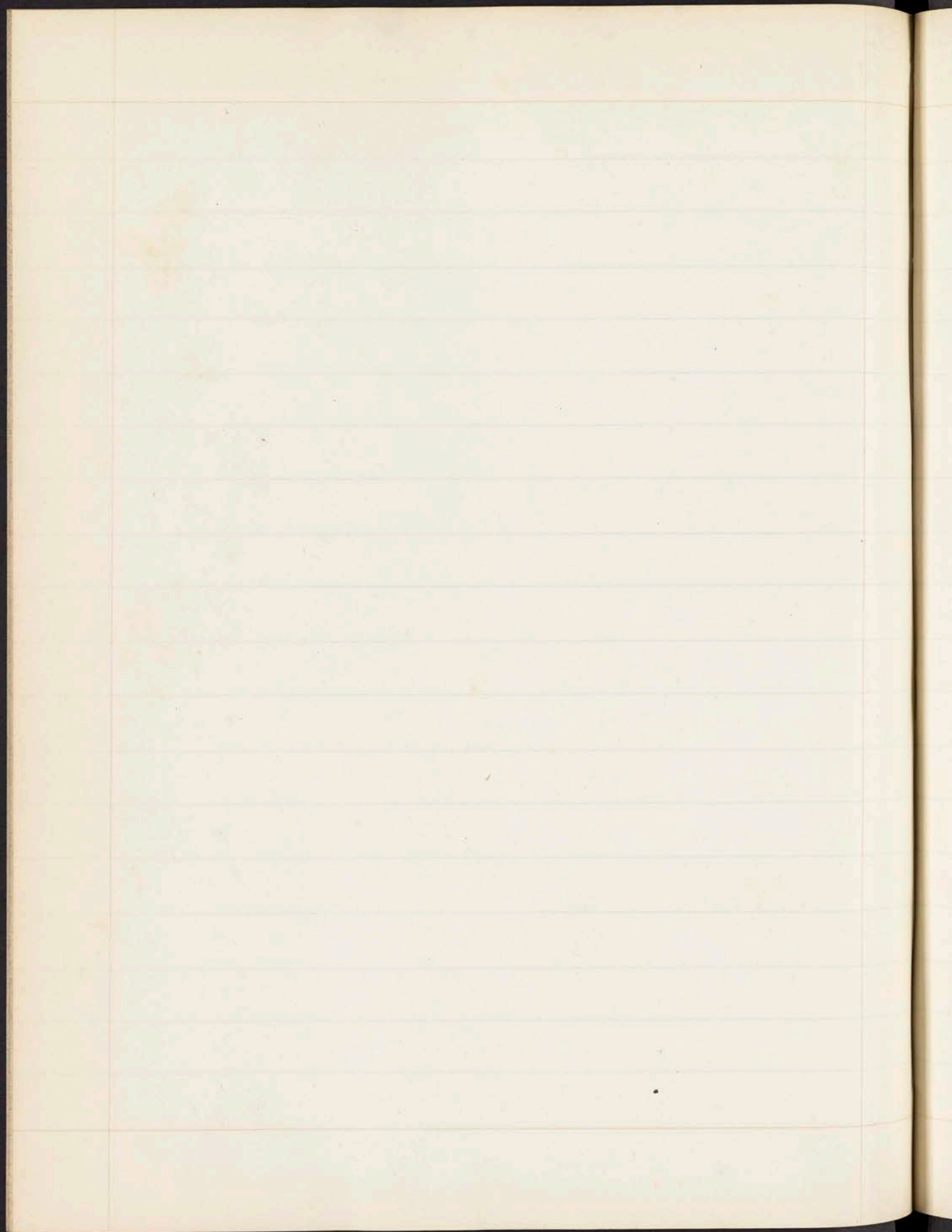




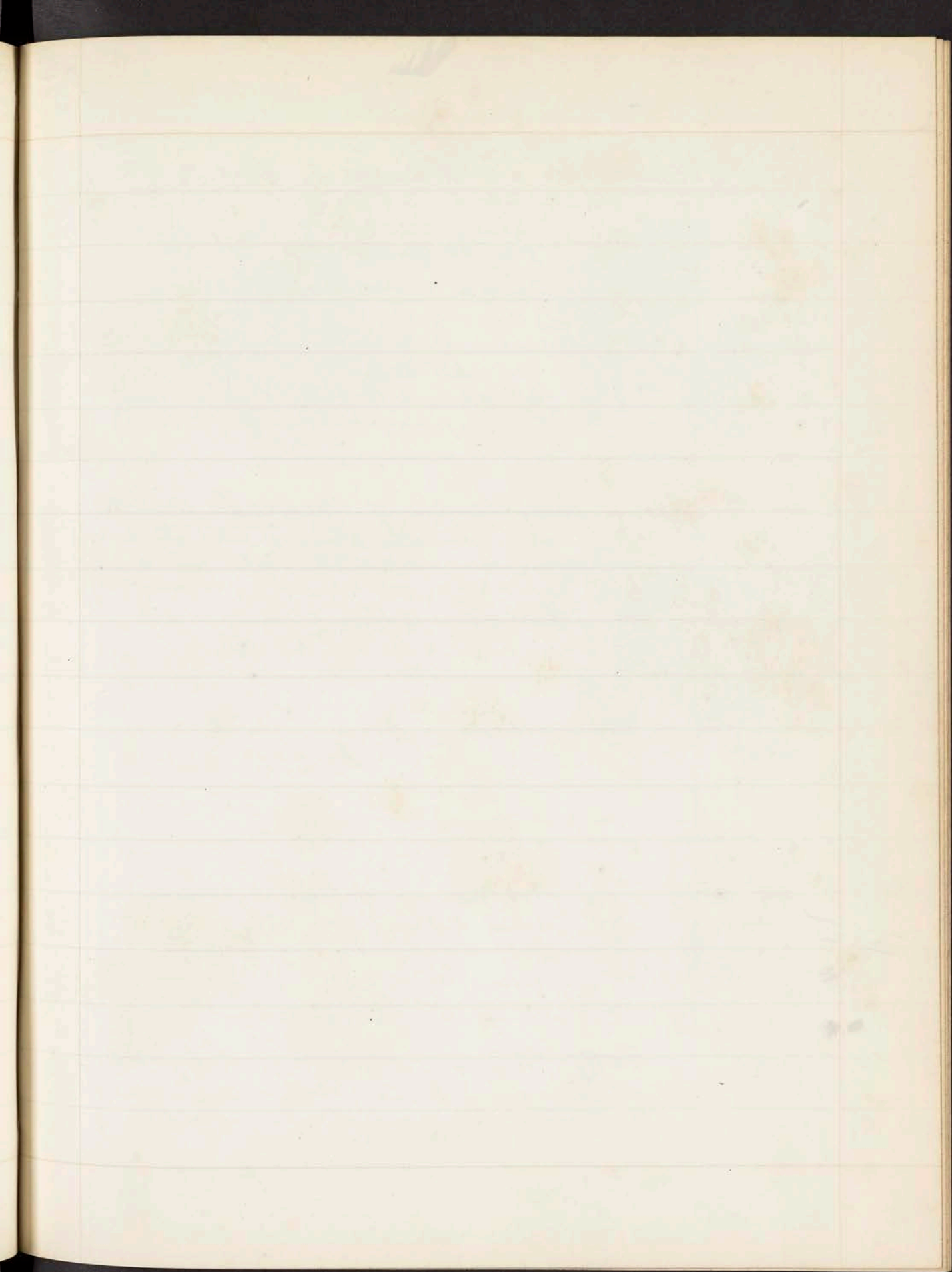




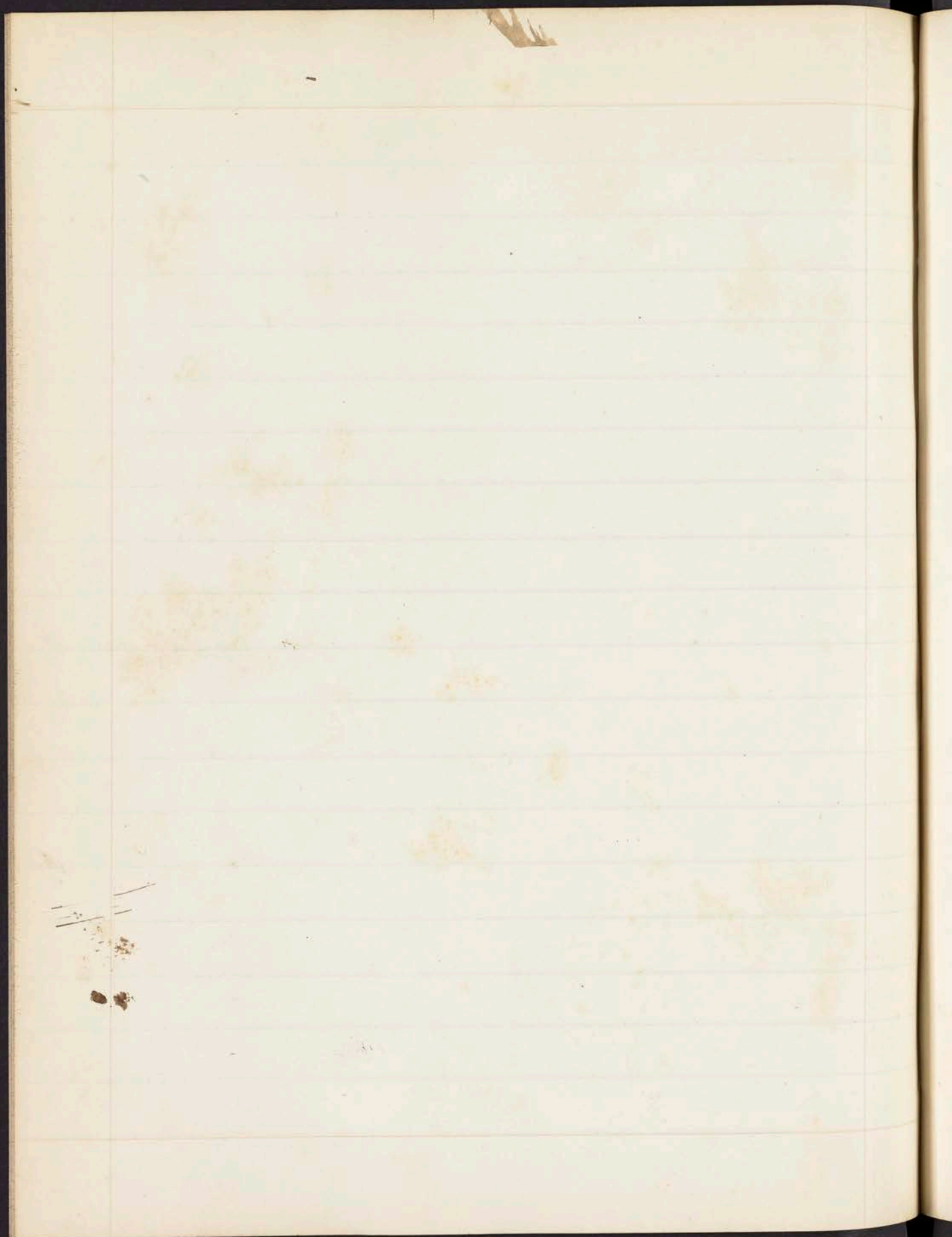














Page 20

The first of the series of letters to the  
President of the United States, dated  
at New York, 1800.

The second of the series of letters to the  
President of the United States, dated  
at New York, 1800.

Page 21

The third of the series of letters to the  
President of the United States, dated  
at New York, 1800.

The fourth of the series of letters to the  
President of the United States, dated  
at New York, 1800.

Page 22

The fifth of the series of letters to the  
President of the United States, dated  
at New York, 1800.

The sixth of the series of letters to the  
President of the United States, dated  
at New York, 1800.

Page 23

The seventh of the series of letters to the  
President of the United States, dated  
at New York, 1800.

Page 24



Fig 1. Fatty tumor of arm. See page 50  
 a - fat vesicles.  
 b - Fibrous tissue  
 c - free oil globules

Fig. II. Fatty tumor of neck. See page 51.  
 a - fat vesicles  
 b - fat vesicles with crystalline nuclei  
 of manganic acid.

Fig 3. Fibro-fatty tumor of Breast. See page 52  
 a - Fibrous structure showing oval nuclei  
 after the addition of acetic acid.  
 b - Fat vesicles, with crystals of manganic acid  
 c - free oil globules

Fig 4. Fatty tumor from face.  
 See page 57.

Fig 5. Fibro-fatty tumor of thumb (congenital)  
 a - fibrous tissue (yellow)  
 b - fat vesicles  
 c - free oil globules } See page 57

Fig 6. Fatty tumor. Showing Crystals  
 of manganic acid both on the interior  
 & Exterior surfaces of cell walls.  
 b - free oil globules } See page 59



Plate 1.

Fig. 1



Fig. 2

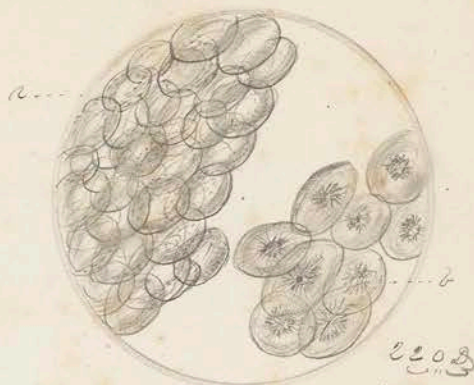


Fig. 3

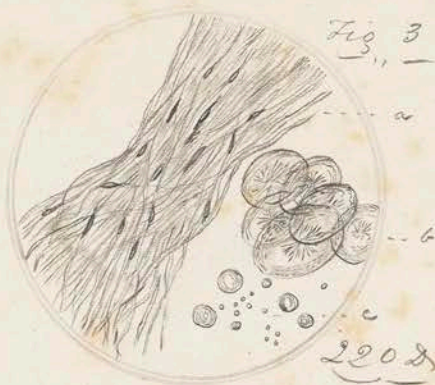


Fig. 4

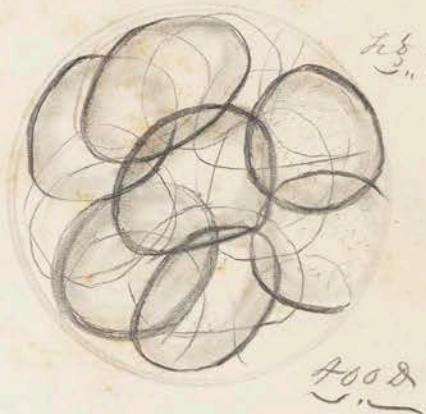


Fig. 5

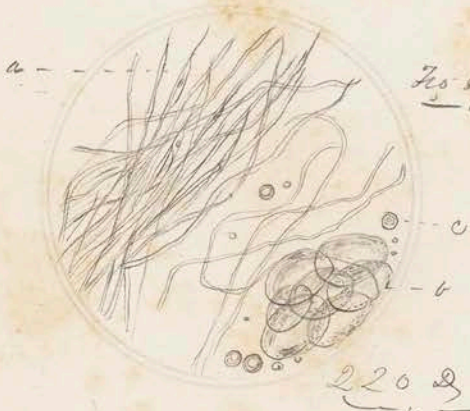
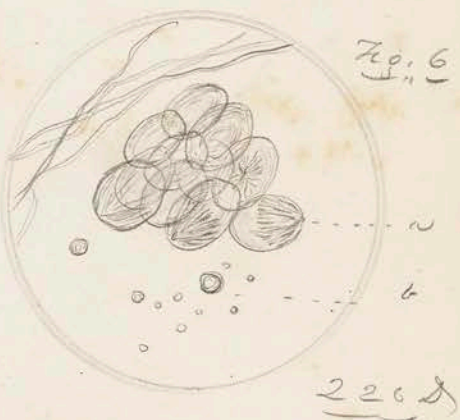
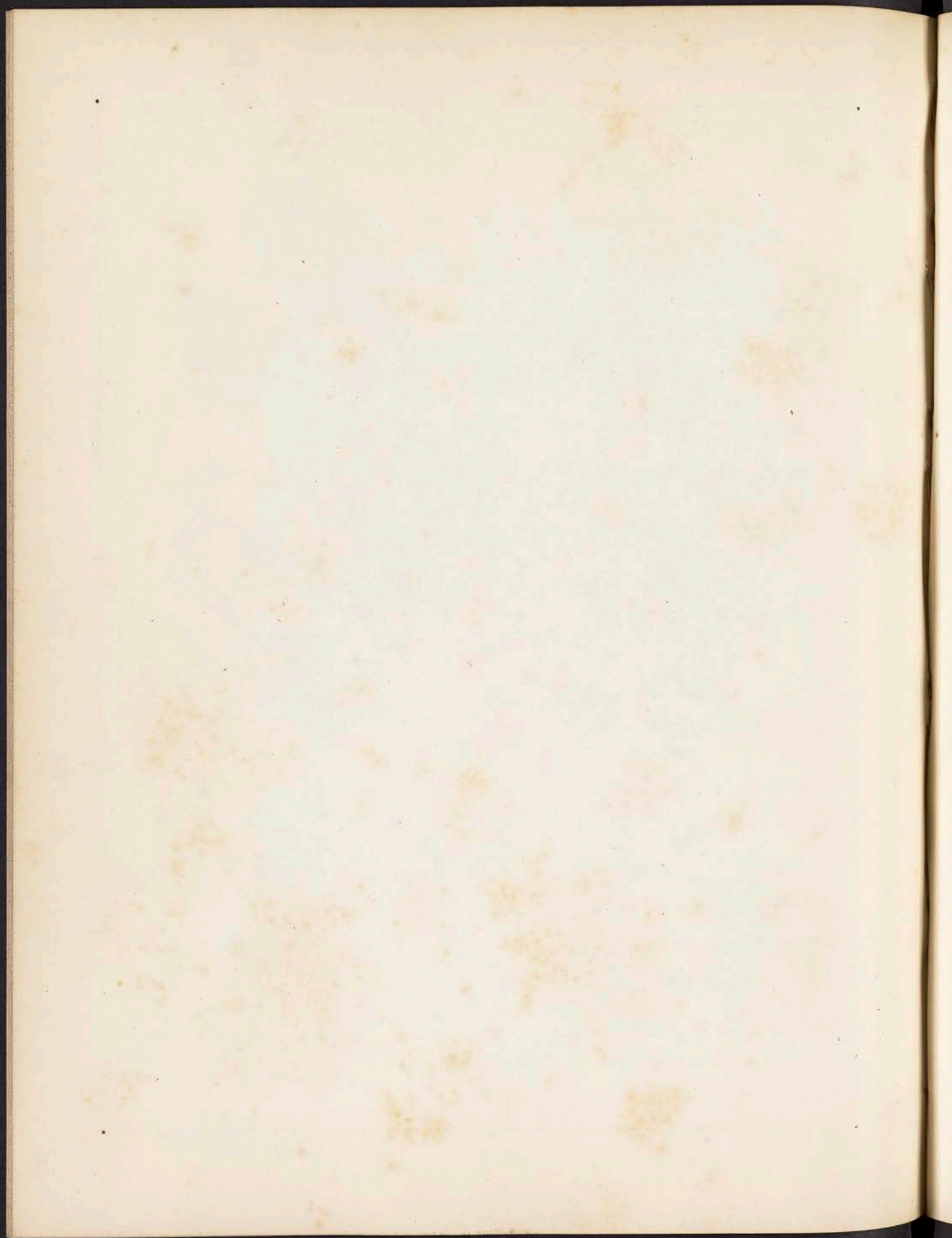


Fig. 6









21. The first of the year 1861.

The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.

The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.

The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.

The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.

The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.

The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.  
The first of the year 1861.



Fig. 182 Fibrous tumor of Heel - See page 61 -

- Fig. 1. a - fibrous structure  
b - one a up, old, Epithelial scales.  
c - wavy bands of fibrous tissue

- Fig. 2 a. fusiform capsules forming fibre.  
b - fat-cells  
c - fusiform capsules, magnified  
more highly, showing nucleus

Fig 3 Fibro-fatty Tumor of Breast. See page 59.

- a - Epithelial scales from skin  
b - fat-vesicles.  
c - free oil globules  
d - fibrous tissue

Fig 4 Carcinoid of Ear. (very fibrous tissue (yellow))  
This tumor is always described as carcinoid,  
it is simply a tumor of yellow fibrous  
tissue, and occurs as in this case  
in the lobe of the Ear. See page 62.

Fig 5 Fibrous thickening of wall of Stomach  
See page 63.

Fig 6 Fibrous tumor of Intestine. See page 64.

- a - fat-vesicles  
b - free oil globules  
c - fibrous tissue



Plate 2.

Fig 1



Fig 2



Fig 3



Fig 4

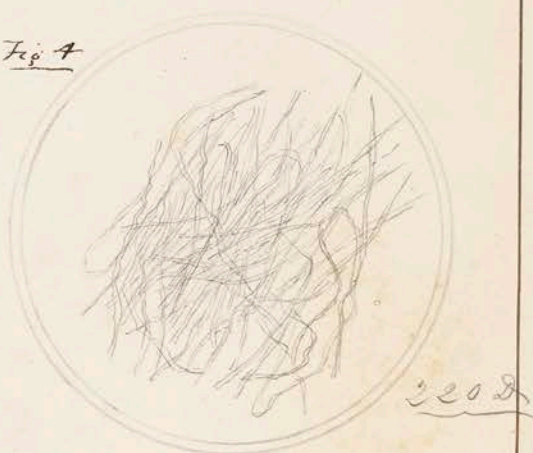
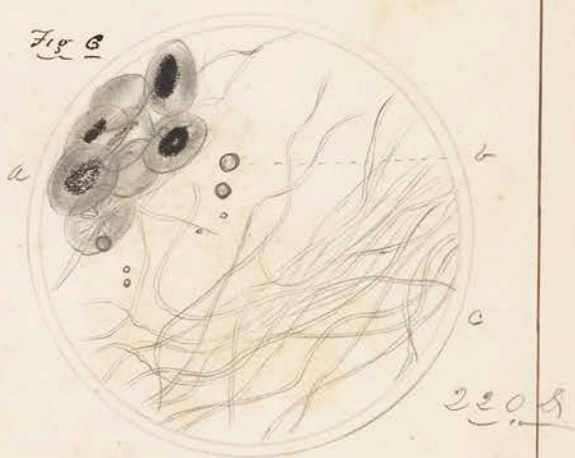


Fig 5



Fig 6





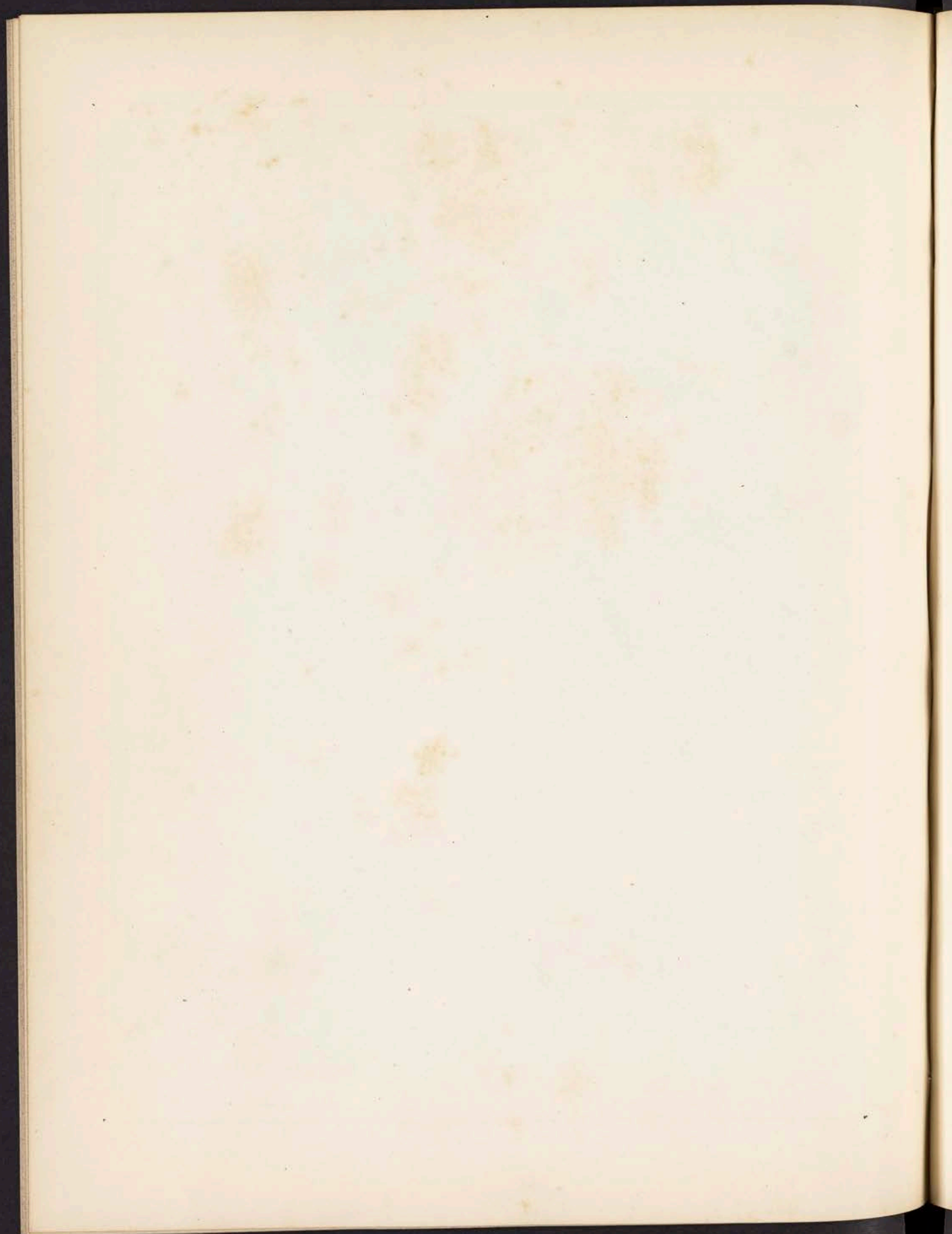








Fig. 1

Fibroplastic tumor from face. See page 66

- (a) — Fibrous structure
- (b) — Peculiar, oval cells, non nucleated  $\frac{1}{3500}$ " high in diam.
- (c) — Nerve filament and bunch.
- (d) — Shed Epidermic Scales.
- (e) — fat vesicles
- (f) — oil globules free

Fig. 2

Tumor of face of a fibro-plastic character See page 66.

X

Fig. 3

- (a) — fibroplastic cells.
- (b) — oval cells, of a peculiar character described in text.

Fig. 4

Fibro-plastic Tumor of Breast See page 67

- a — Epidermic cells
- b — fibro-plastic cells
- c — peculiar oval cells
- d — fibrous tissue (yellow) —

Fig. 5

Fibrous tumor of Breast See page 68

- a — fat vesicles
- b — fibrous tissue
- c — { Colostoma globules, the  $\frac{1}{8000}$ " of an inch in diameter & granular in appearance, tinged brownish in color.
- d — gland cells, about  $\frac{1}{4000}$ " of inch in diameter
- e — free oil globules.

Fig. 6

Tumor of Chin See page 107

- (A) Epithelial cells.
- (B) fibrous tissue
- (C) Small oval cells.



Plate 3

Fig 1

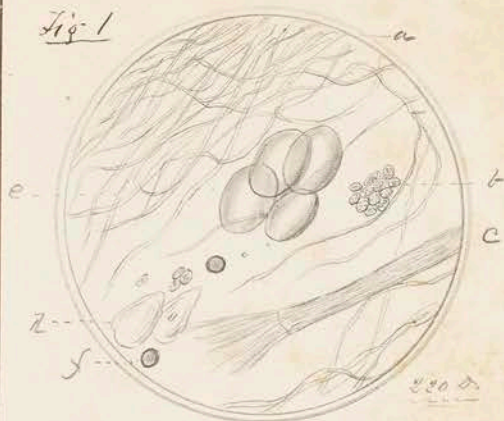


Fig 2

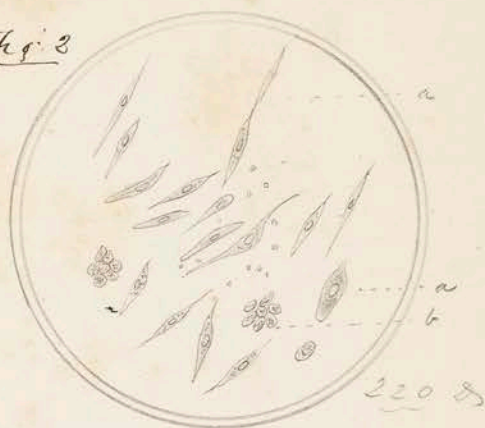


Fig 3

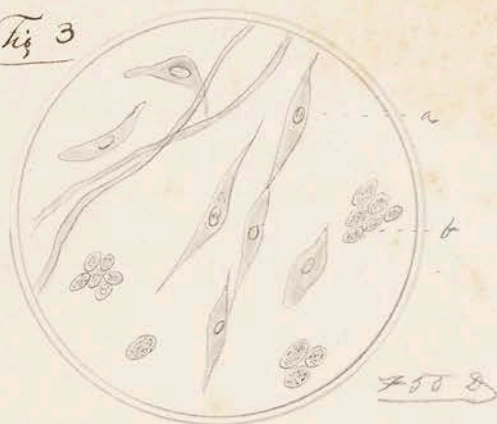


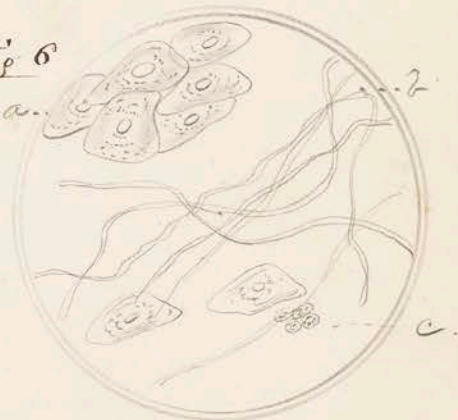
Fig 4



Fig 5

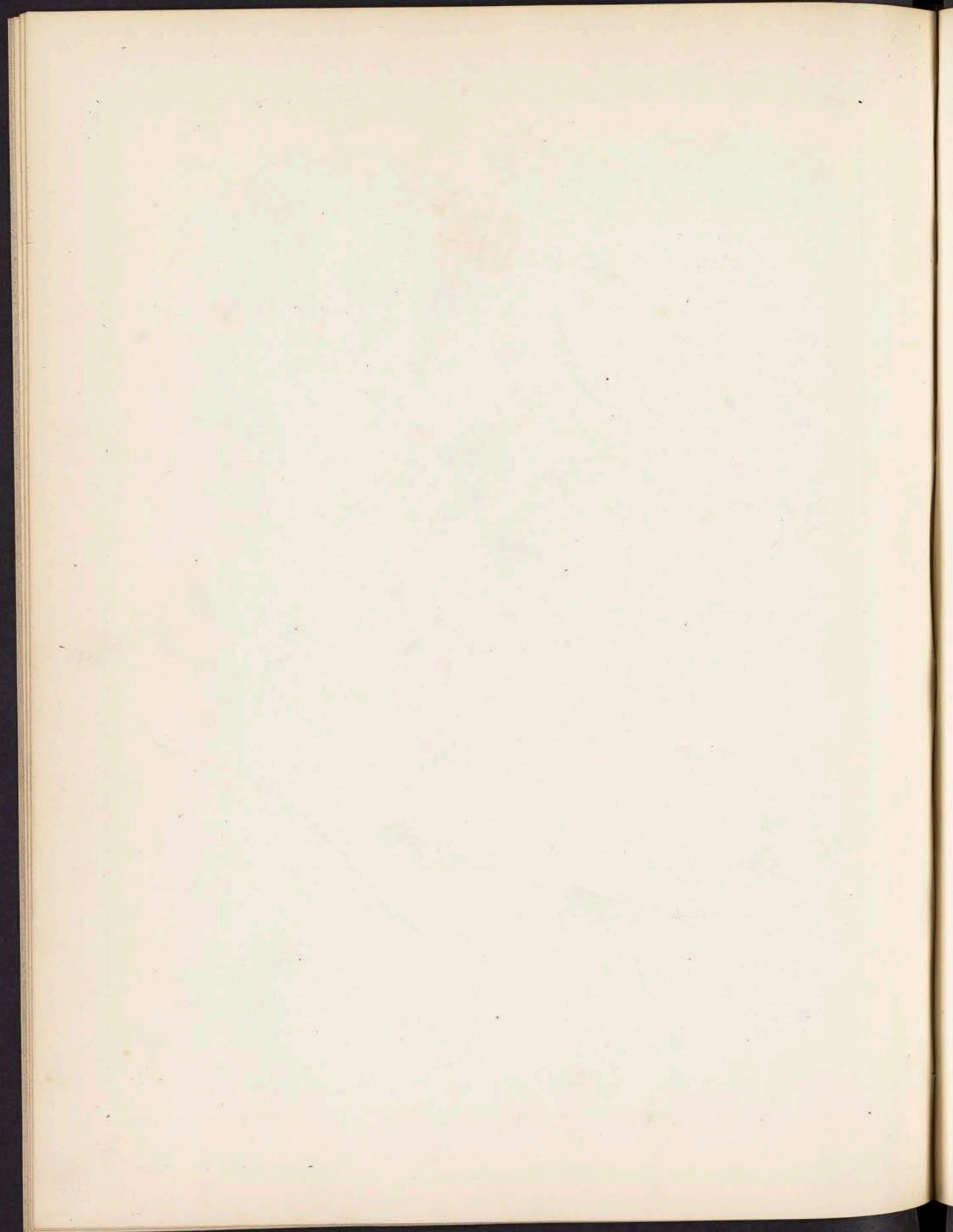


Fig 6



(2. 00  
first  
second  
Plate 3











Figs. 1

& 2

Fibro-plastic tumor of Chin See page 69.

Fig. 1

- a - fibrous cyst walls
- b - peculiar oval cells
- c - Epithelial cells
- d - fibro-plastic fusiform cells
- e - " " "

} with nuclei

Fig. 2

- a - Epithelial cell.
- b - fibro-plastic cell.
- c - peculiar oval cell.

} showing nuclei

Fig. 3

Fibro-plastic of Breast - See page 70.

- a - mother cell -
- b. fibro-plastic cells of different shape & size.
- c. fibrous tissue in stroma.
- d. Epithelial cell
- e - Comp? granular cell.

Fig. 4.

Two cases of Neurofibroma See page 70

- 1. a - nerve fibres.
- b. peculiar cells between nerve fibres.

2. (a) nerve fibres See page 71.

(b) fibrous tissue (in reality this tissue forming a hypertrophied sheath to nerve.)

Fig. 5.

& 6

Cicatrix from hand See page 72

Fig. 5

- a - Yellow fibrous tissue.
- b - free oil globules
- c - vague cyst.

Fig. 6

- a - fibrous tissue
- b - capillary ball of blood
- c - nerve fibres



Plate IV

Fig 1



Fig 2

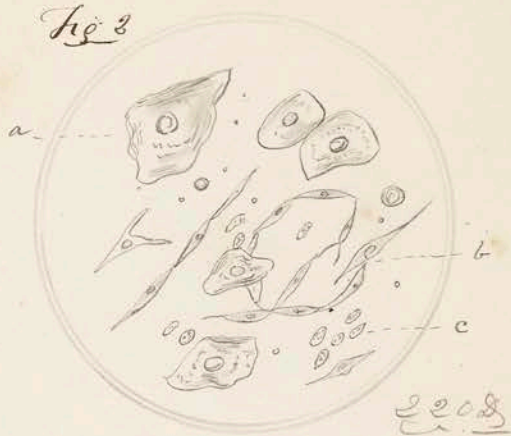


Fig 3



Fig 4

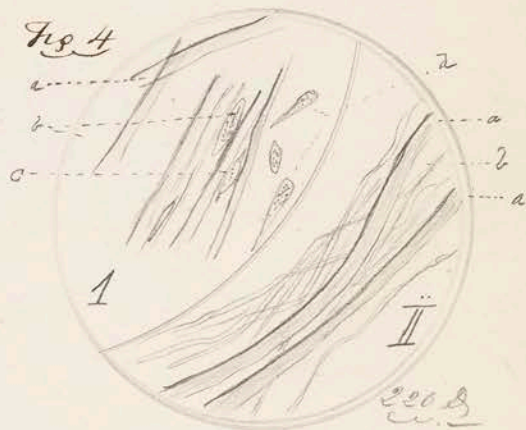
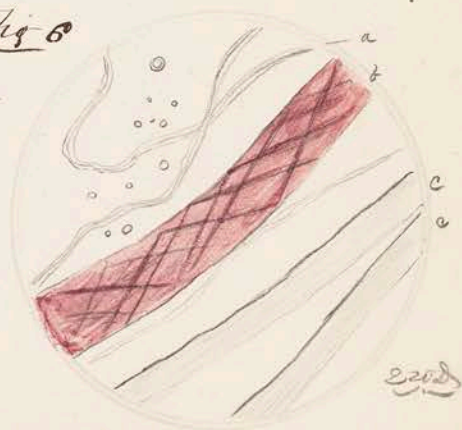


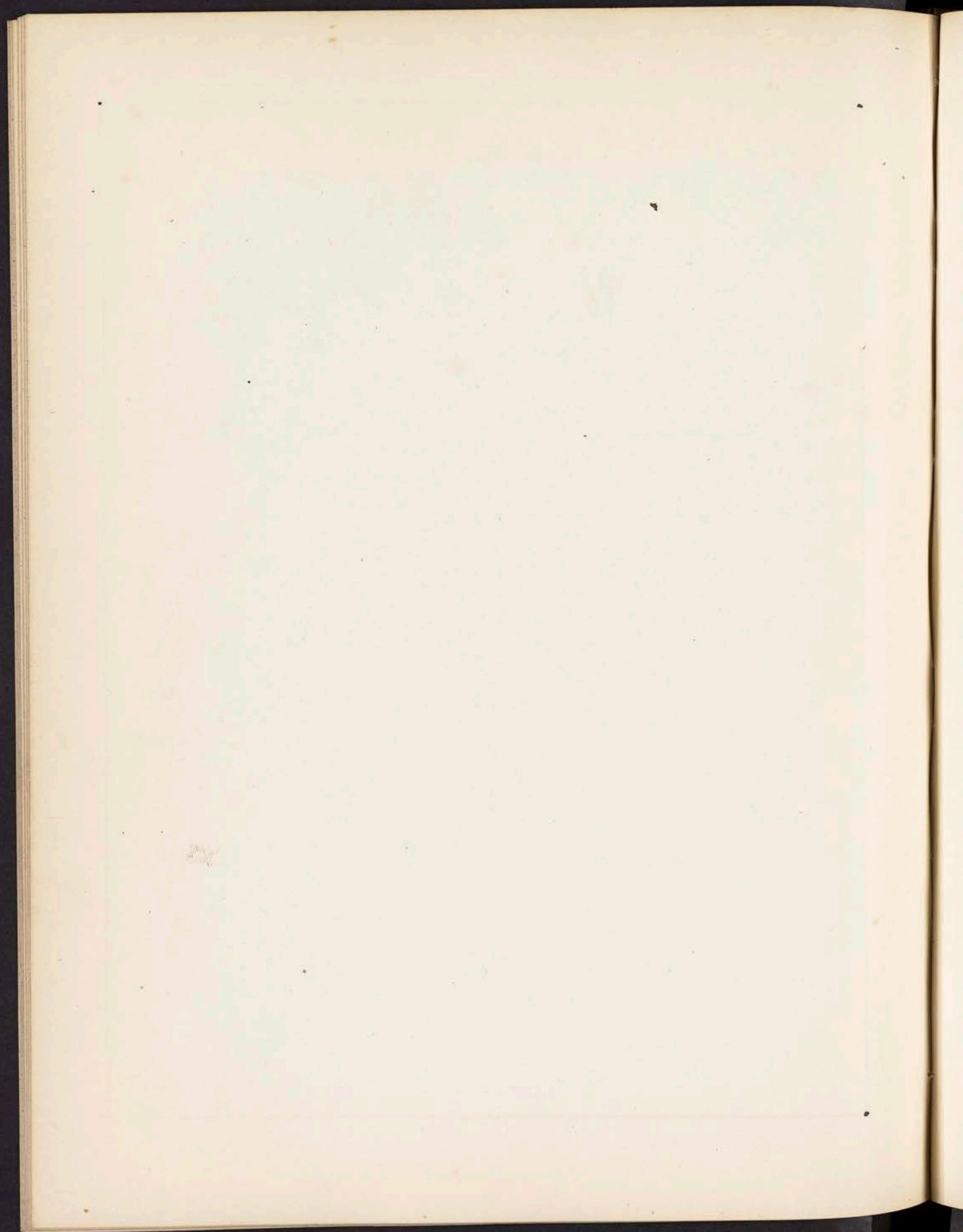
Fig 5



Fig 6













V. part 101.V

Cancer of Cheek See page 73

- Figs. 1  
486  
{after 1<sup>st</sup>  
operation}
- (a.) cancer cells
  - (b.) Epithel. Scales.
  - (c) fibrous tissue
  - (d) comp<sup>d</sup> granular cell.
  - (f.) — free at glabers.
  - (m) — Mother cells, in clony young cells
  - (n.) Caudated cell.
- 

Fig. 2  
385  
{after 2<sup>d</sup>  
operation}

Annotation the same as  
above —



# Plate V

Fig 1



Fig 2



Fig 3

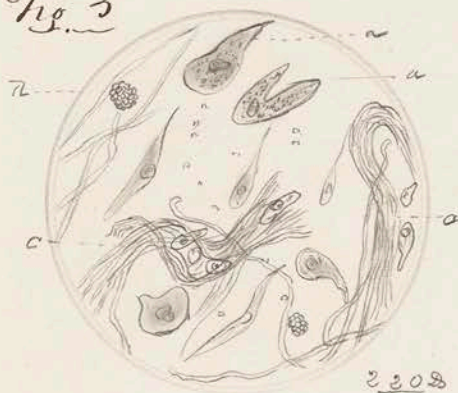


Fig 4



Fig 5

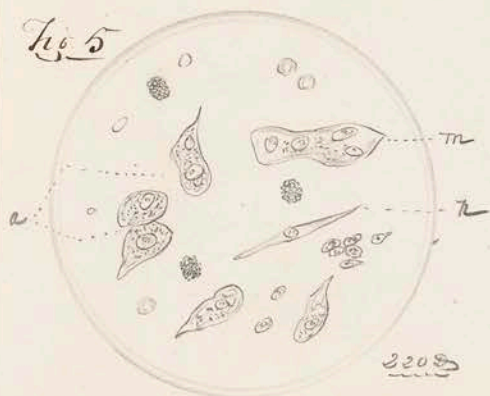


Fig 6





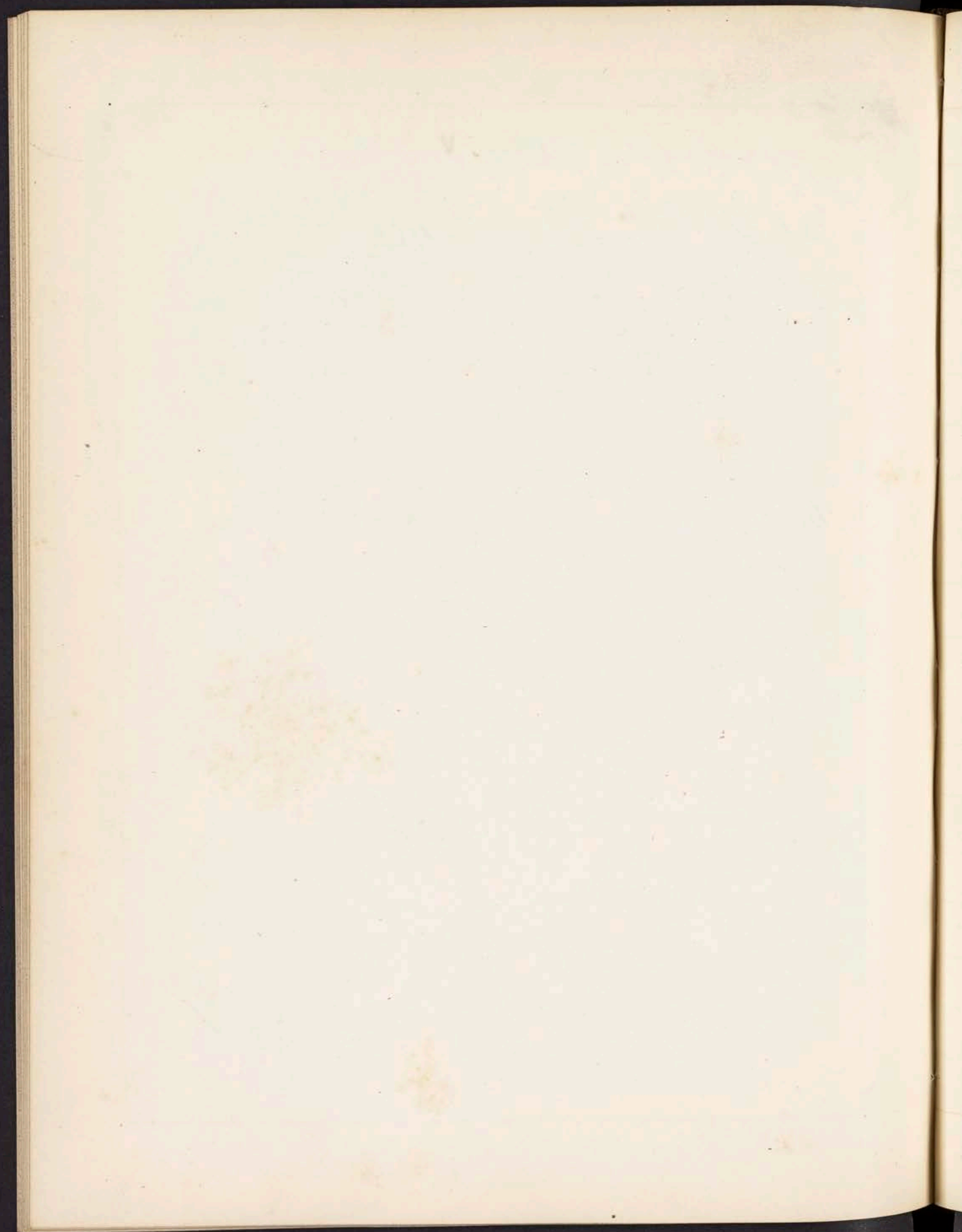








Fig 1. } Tumor of Breast. (Cancer) See page 74  
- 6. }  
Fig. 1. a - Peculiar cells - see text.  
b - Cancer cells

Fig. 2. - Cells represented at Fig. 1 a, are  
seen after the addition of acetic acids  
and are magnified still higher showing  
the nucleus on the cell wall.

Fig 3. (a.) Comp<sup>d</sup> granular cell,  
(b) - free oil globules  
(c.) Blood globule capsule.  
(d) Colostrum.

Fig 4. Cyst in Breast showing cancer cells.

Fig 5. Fibrous structure, (cancer cells (a)  
(b) parent cell,

Fig 6. (a) parent cell -  $\frac{1}{600}$  <sup>th</sup> of inch in diam.  
(b) - simple cancer cell.



Plate VI

Fig. 1



Fig. 2

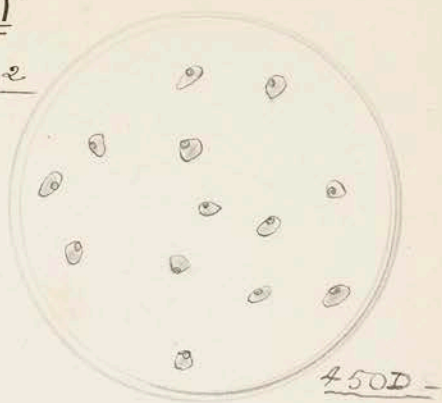


Fig. 3

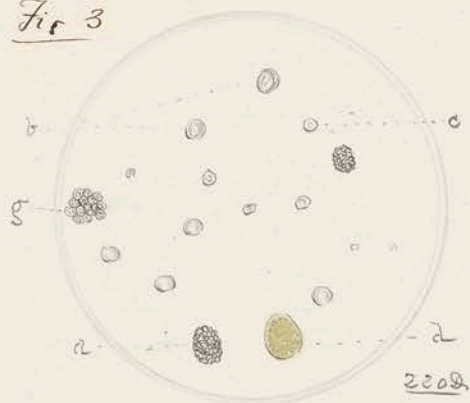


Fig. 4

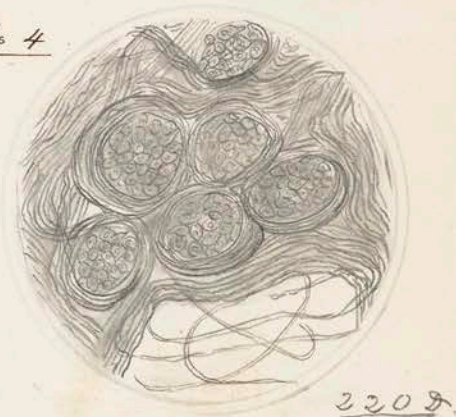


Fig. 5

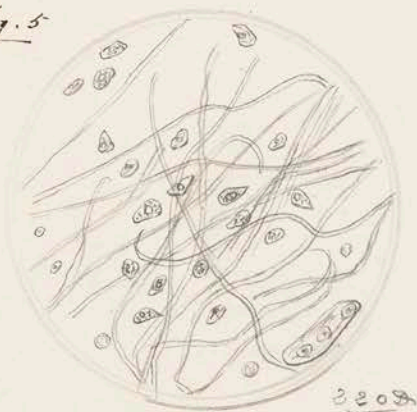
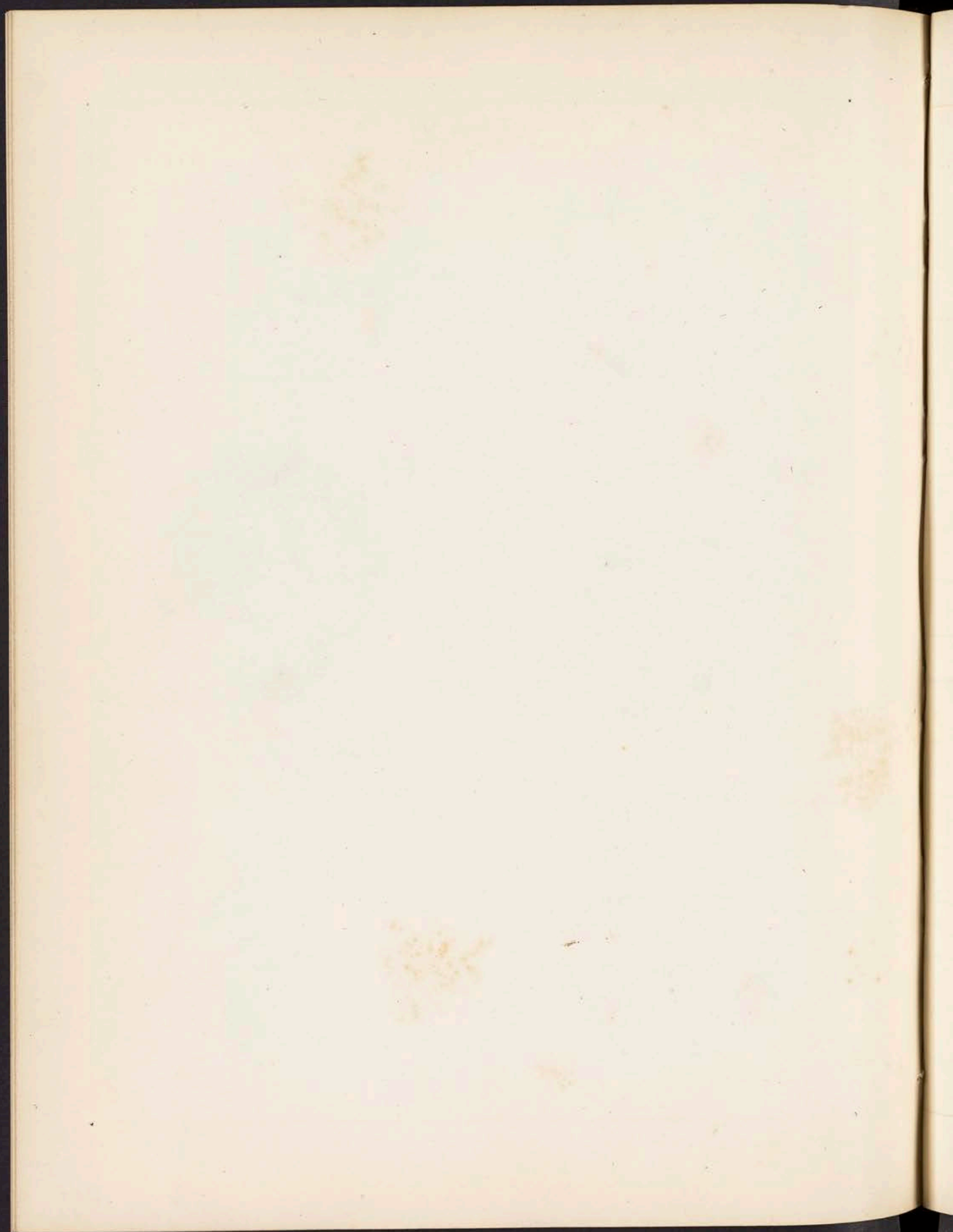


Fig. 6









Mr. J. H. [illegible] [illegible]  
[illegible] [illegible] [illegible]  
[illegible] [illegible] [illegible]

Mr. J. H. [illegible] [illegible]  
[illegible] [illegible] [illegible]  
[illegible] [illegible] [illegible]

Mr. J. H. [illegible] [illegible]  
[illegible] [illegible] [illegible]  
[illegible] [illegible] [illegible]

Mr. J. H. [illegible] [illegible]  
[illegible] [illegible] [illegible]  
[illegible] [illegible] [illegible]

Mr. J. H. [illegible] [illegible]  
[illegible] [illegible] [illegible]  
[illegible] [illegible] [illegible]



W. fac. pl. VII

Fig 187. Cancer of Head. At 3. Haidnck. See page 75

2. } Fig. 1. Cancer cells

" 2 " " Fibrous tissue.

Fig 3 } Cancer of Parotid. See page 76

+ 4 } Fig. 3 - cancer cells & Epidemic cells.

" 4 " " " & fibrous tissue.

Fig 5 } Epulis. See page 77. Cancer?

+ 6 } Fig 5. Parent cells (m) }

(b). Epithelial cells. }

Fig 6. Action of Iodine on cells.



Plate VII.

Fig 1



Fig 2

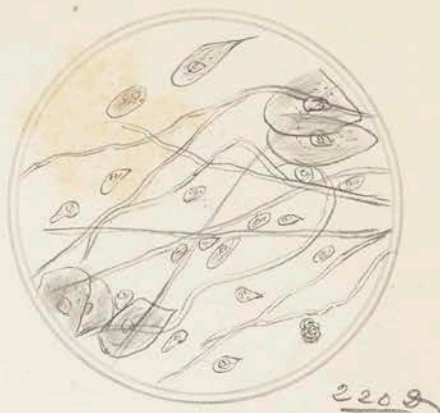


Fig 3



Fig 4

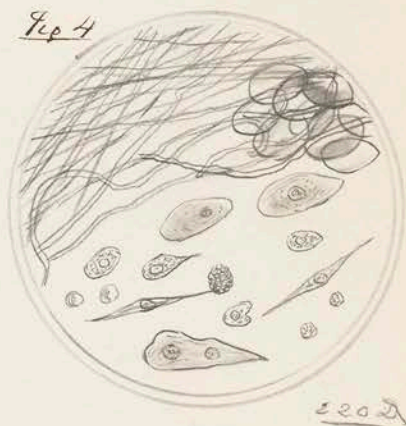


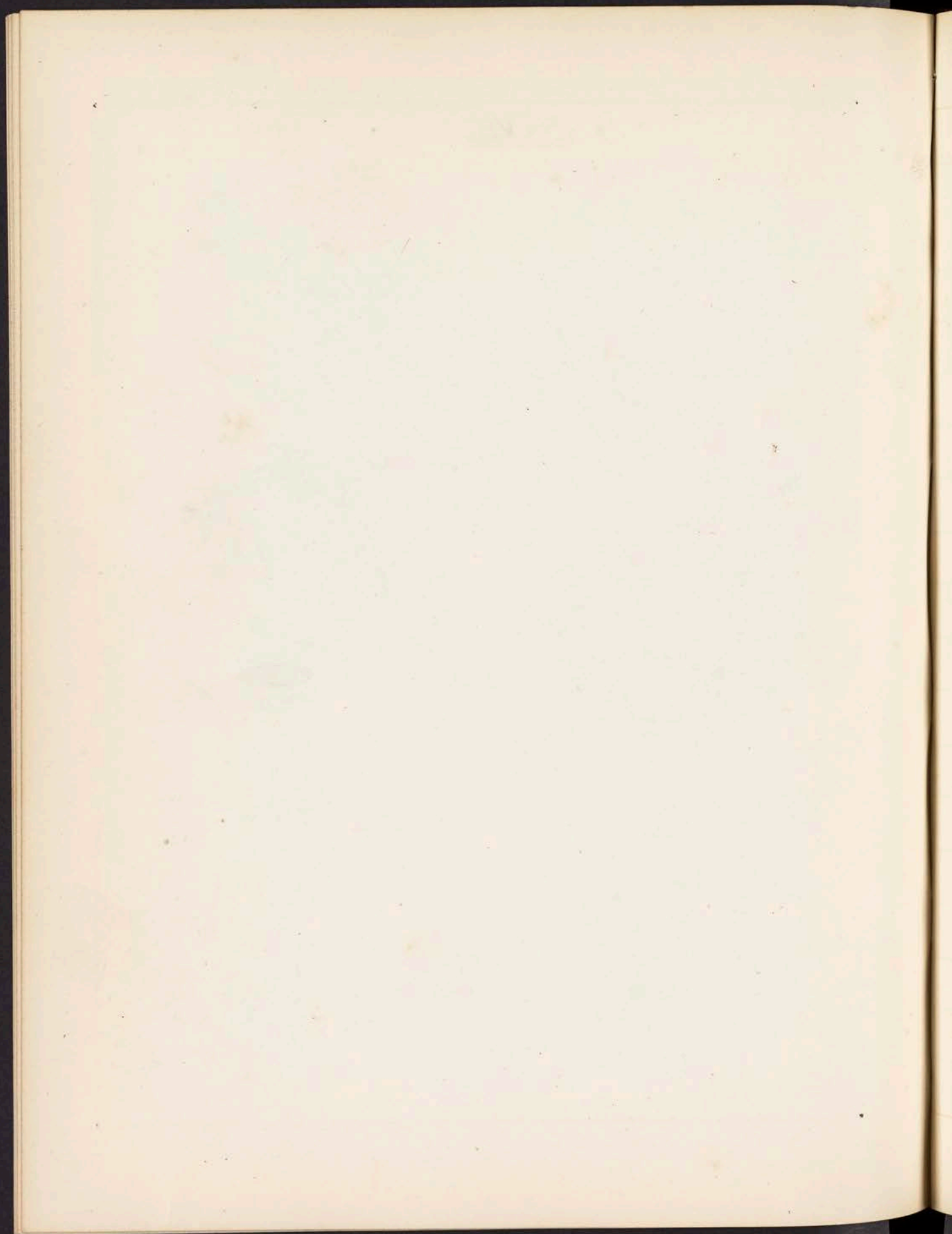
Fig 5



Fig 6













m  
pt. VII

Figs 1-6 - Cancer from Ant<sup>r</sup> mediastinum,  
pectoral muscle, + Stöthy - See page 78.

Fig. 1.

a. Peculiar cells. (See text)  
b. - Ordinary cancer cells.)

Fig. 2. Same acted on by acetic acids. 450 x.

Fig. 3.

Masses from pectoral muscles

a. - muscular fibres.  
b. - peculiar cells.  
c. - fibrous tissue.

Fig. 4

Fibrous cysts from Stöthy.

a. - cyst.  
b. - cells.

Fig. 5

Same treated with acetic acids.

Fig. 6

- (A) cells surrounding (C) a small  
unbranched duct. - (A) same more  
highly magnified.



Plate viij

Fig. 1



Fig. 2



Fig. 3

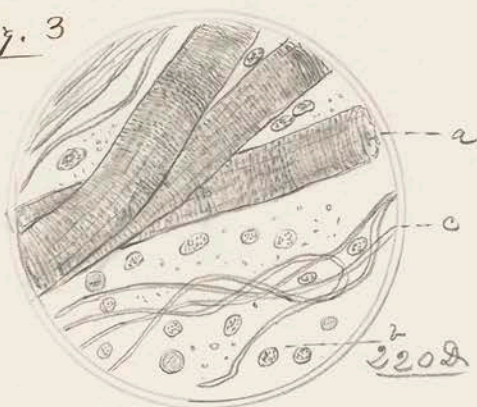


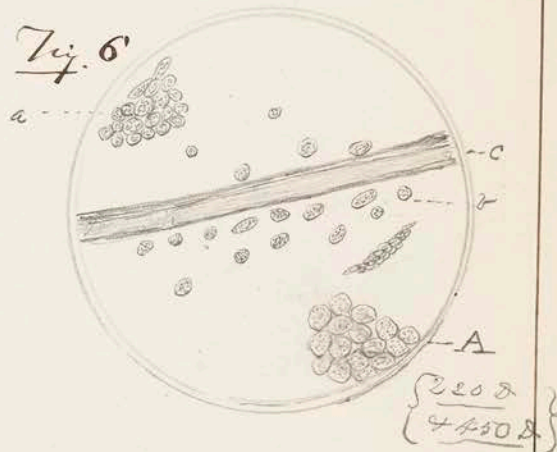
Fig. 4



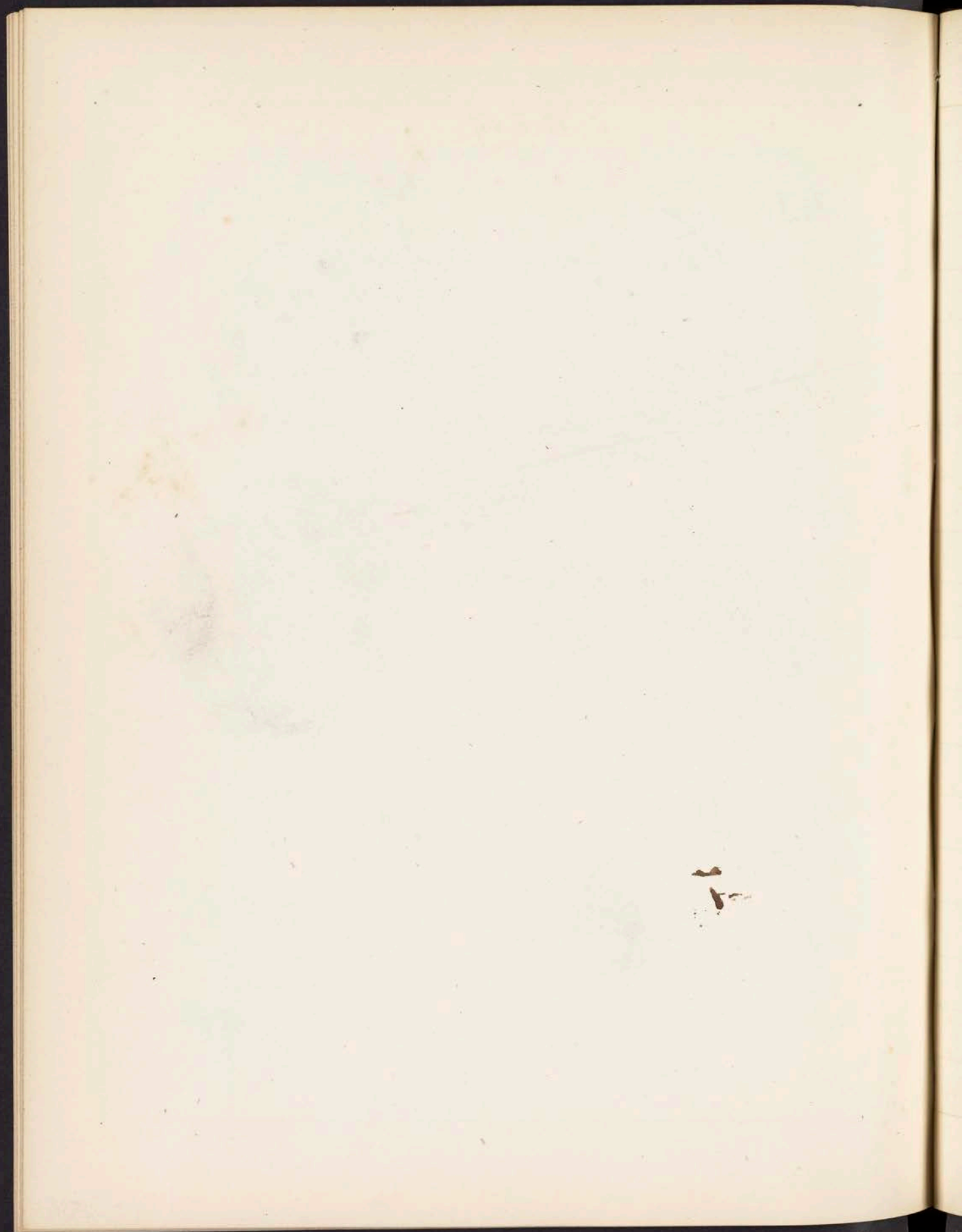
Fig. 5



Fig. 6









Chambers and his family  
were in the city of New York  
in the year 1840.

Chambers and his family  
were in the city of New York  
in the year 1840.

The time I spent in London  
was very pleasant.

Chambers and his family  
were in the city of New York  
in the year 1840.

Chambers and his family  
were in the city of New York  
in the year 1840.

Chambers and his family  
were in the city of New York  
in the year 1840.



Fig. 1 Cancer cells from tumor of uterus } See page 79  
floating in a sea of granules. } from fluid of }  
fundus uteri }

Fig. 2 Cancer cells, granules, fibrous tissue -

Fig. 3 The same (from the harder portion of the fundus.

Fig. 4 Cyst (a) - filled with cancer cells. }  
(b) - parent cells. }  
(c) - comp. granular cell }

Fig. 5 Polypus of nose. See page 82

576 Fig. 5. Fibres, fibro-plastic cells, & perhaps  
Cancer cells.

Fig. 6. Fibres, Epithelial cells, &  
fibro-plastic cells, - perhaps also  
Cancer cells



Plate IX,

Fig. 1



220x

Fig. 2



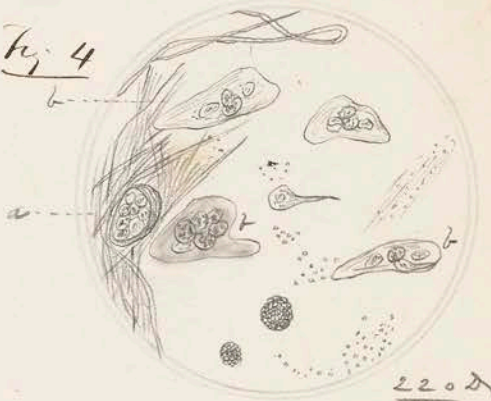
220x

Fig. 3



220x

Fig. 4



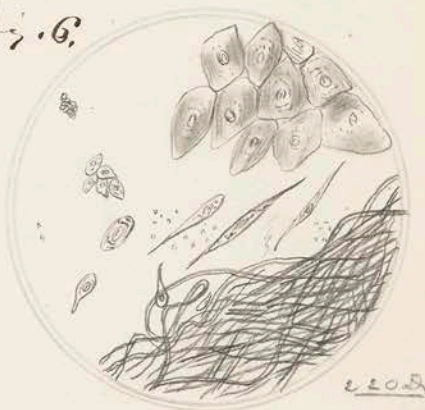
220x

Fig. 5



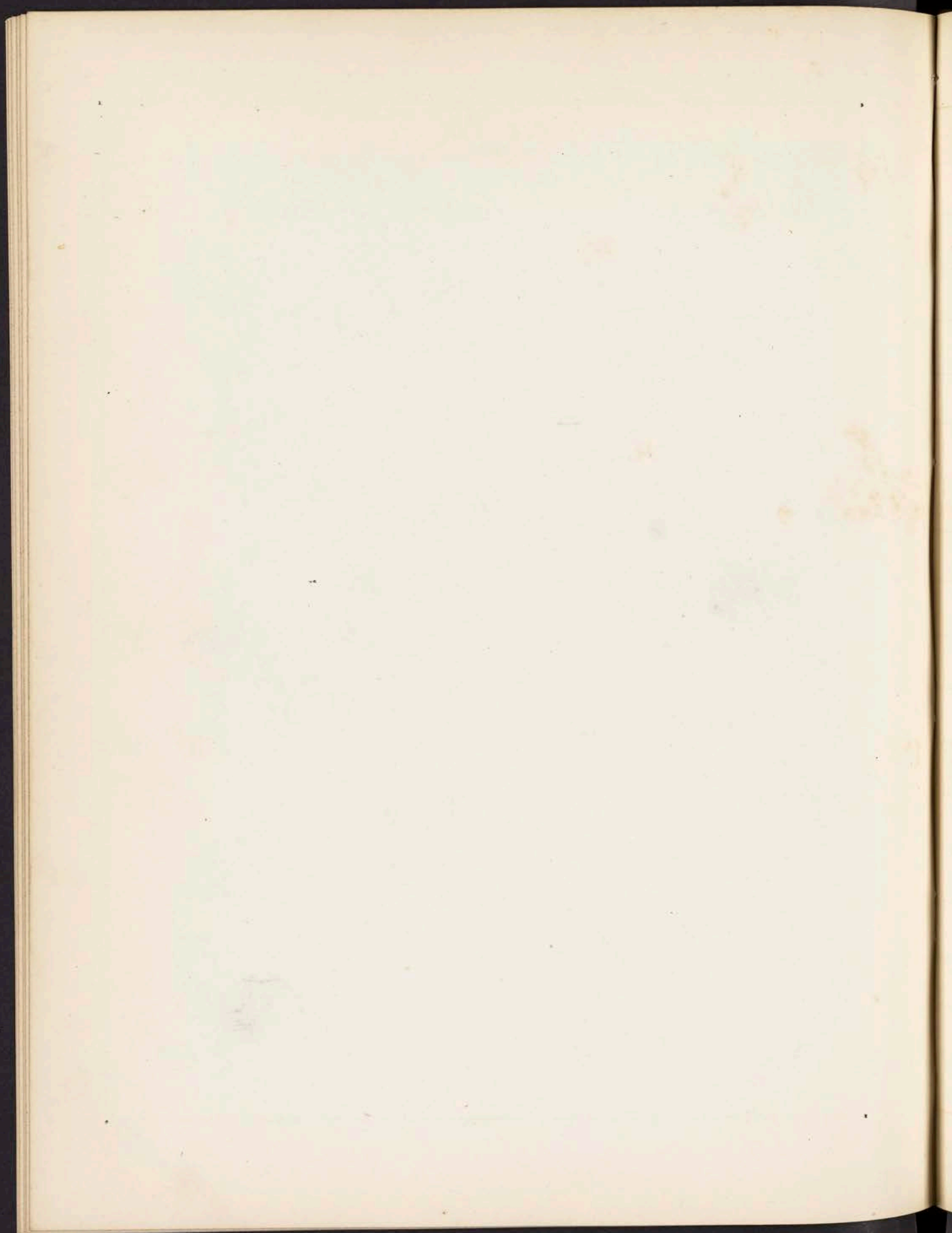
220x

Fig. 6



220x







Given on 18th Nov 1892

The following is a list of the names of the persons who have been admitted to the office of the Registrar of the County of London since the 1st of January 1892.

1. Mr. John Smith

2. Mr. John Smith

3. Mr. John Smith

4. Mr. John Smith

5. Mr. John Smith

6. Mr. John Smith

7. Mr. John Smith

8. Mr. John Smith

9. Mr. John Smith

10. Mr. John Smith

11. Mr. John Smith

12. Mr. John Smith

13. Mr. John Smith

14. Mr. John Smith

15. Mr. John Smith

16. Mr. John Smith

17. Mr. John Smith

18. Mr. John Smith

19. Mr. John Smith

20. Mr. John Smith



6/1/12 132  
X

Fig. 1.

Cancer over Painted gl. See page. 83

Shows (a) cysts filled w. little cancer cells of 12000<sup>x</sup> of which diam.  
(b) free cancer cells of about 11000<sup>x</sup> to 9500<sup>x</sup> " "

Fig. 2

Cancer cells of same

No. 3

Cancer of Oropharynx - See page. 83

(a) Crystals of common salt

(b) Cancer cells of various sizes

Fig. 4.

Same. More highly magnified.

Fig. 5

" Cancer of Pancreas - See page 84

+ 6

Cells, indistinctly shown, owing to  
the composition being rather poor



Plate X

Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

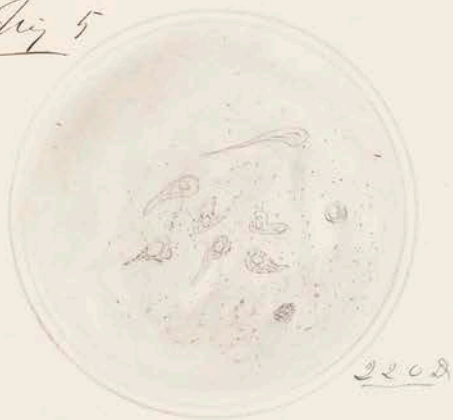
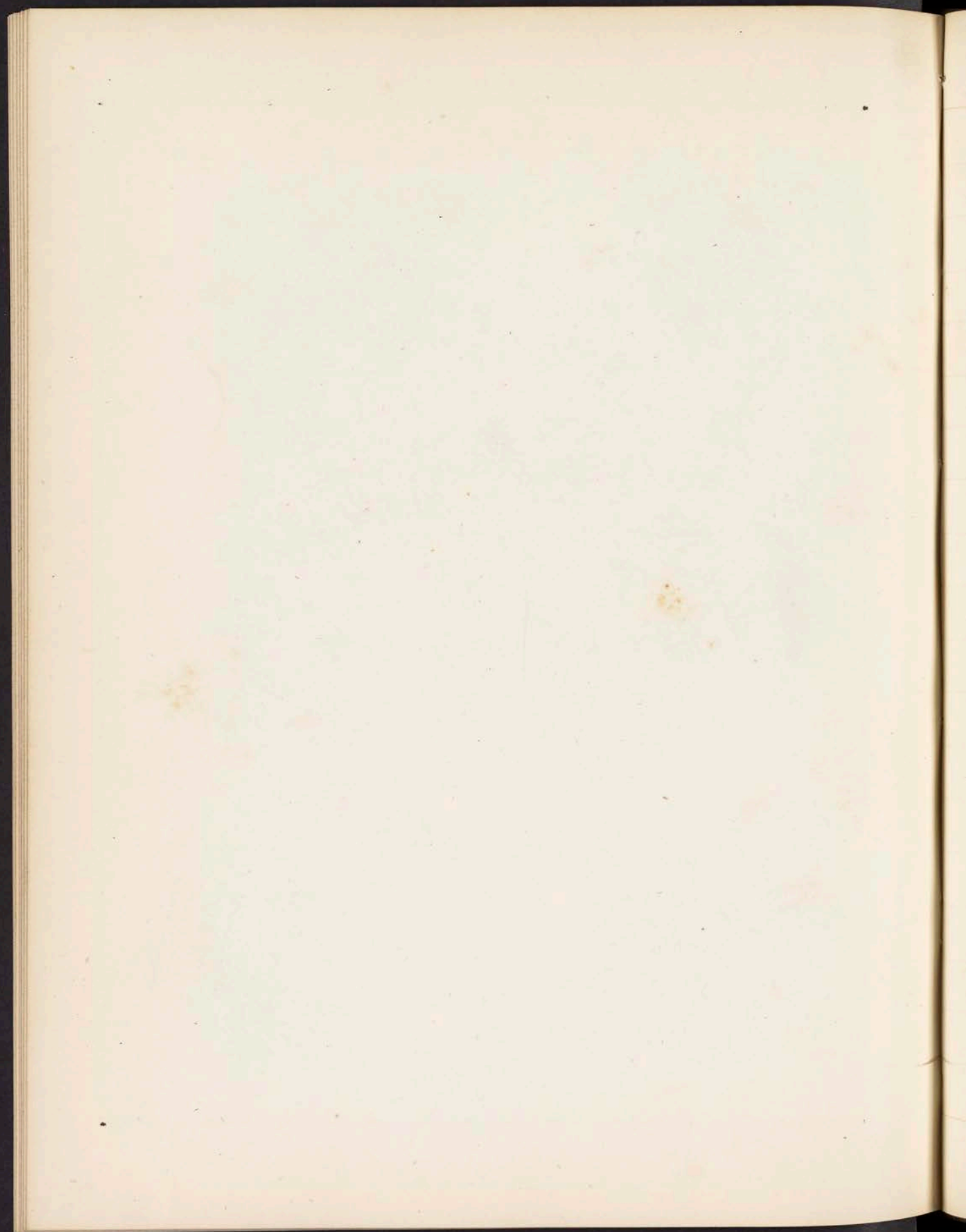


Fig. 6









1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876

1875 - 1876



Typ 1-4 Colloid Cancer of arm. See page 85

Fig. 1. - Cells from deposit - from 1/400 to 1/2000 pl. of hist. in alcohol

Fig 2 ————— " ————— " ————— " Mag. 750 diameters

Fig 3 Distinctly muscular fibres. (from muscle) &

Cells as above

Fig 4. Peculiar cells found in clot - non-nucleated

probably for nuclei - See text -

—————"—————

Fig. 5 Cancer of Breast. See page 87

a. Gland cells. non nucleated 1/4000 " Rich. W.D.

b. Cancer cells.

Fig. 6 - (A) fat tissue

(B) Cyst. filled with cells.

(C) Cells

—————"—————



Plate XI

Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6





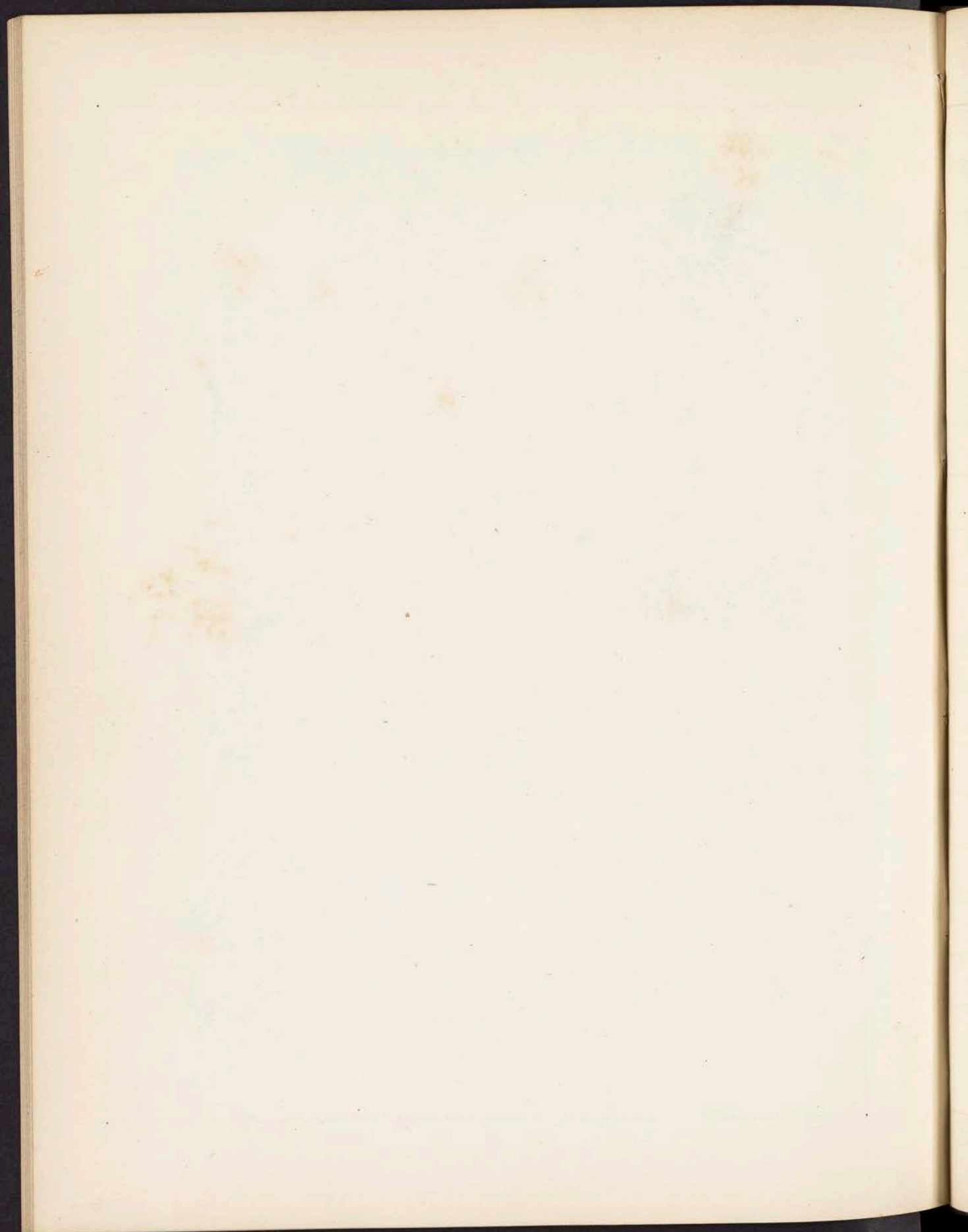








Fig 1. Cancer of Testis, Gland, following Cancer of  
Lip - See page 87.

- (a) Cancer cells.
- (b) Gland cells.
- (c) Comp<sup>d</sup> granula cell
- (d) Caudate cells.
- (e) Cyst. filled with cells

Figs. 2, 3 & 4. } Osteosarcoma - See page 88  
Fig. 2. (a) Epithelial cells, with large nuclei.  
(b) Cancer cells.

- Fig. 3. (a) Cancer cells.  
(b) Caudate cells.  
(c) Blood capillaries.  
(d) All globules.  
(e) Cancer cells.

- Fig 4. (a) Cancer cells.  
(b) All globules.  
(c) Comp<sup>d</sup> granula capillaries.  
(d) Epithelial cells.

Figs 5 & 6. Cancer of Breast. See page 88  
Fig 5. (a) All fat.  
(b) Gland cells.  
(c) Cancer cells

- Fig 6. (a) Lymphatic.  
(b) Comp<sup>d</sup> granula cell  
(c) Gland cells.  
d. Cancer cells



Plate XII

Fig. 1



Fig. 2



Fig. 3



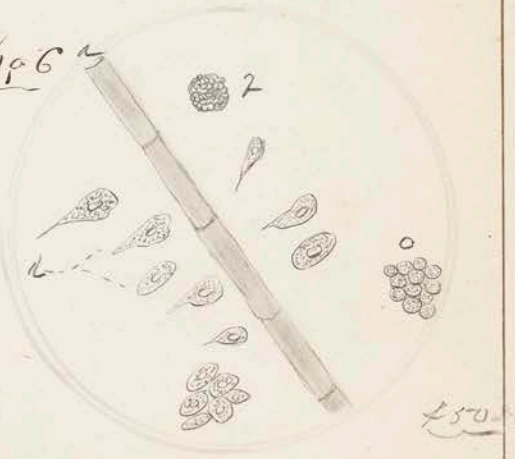
Fig. 4



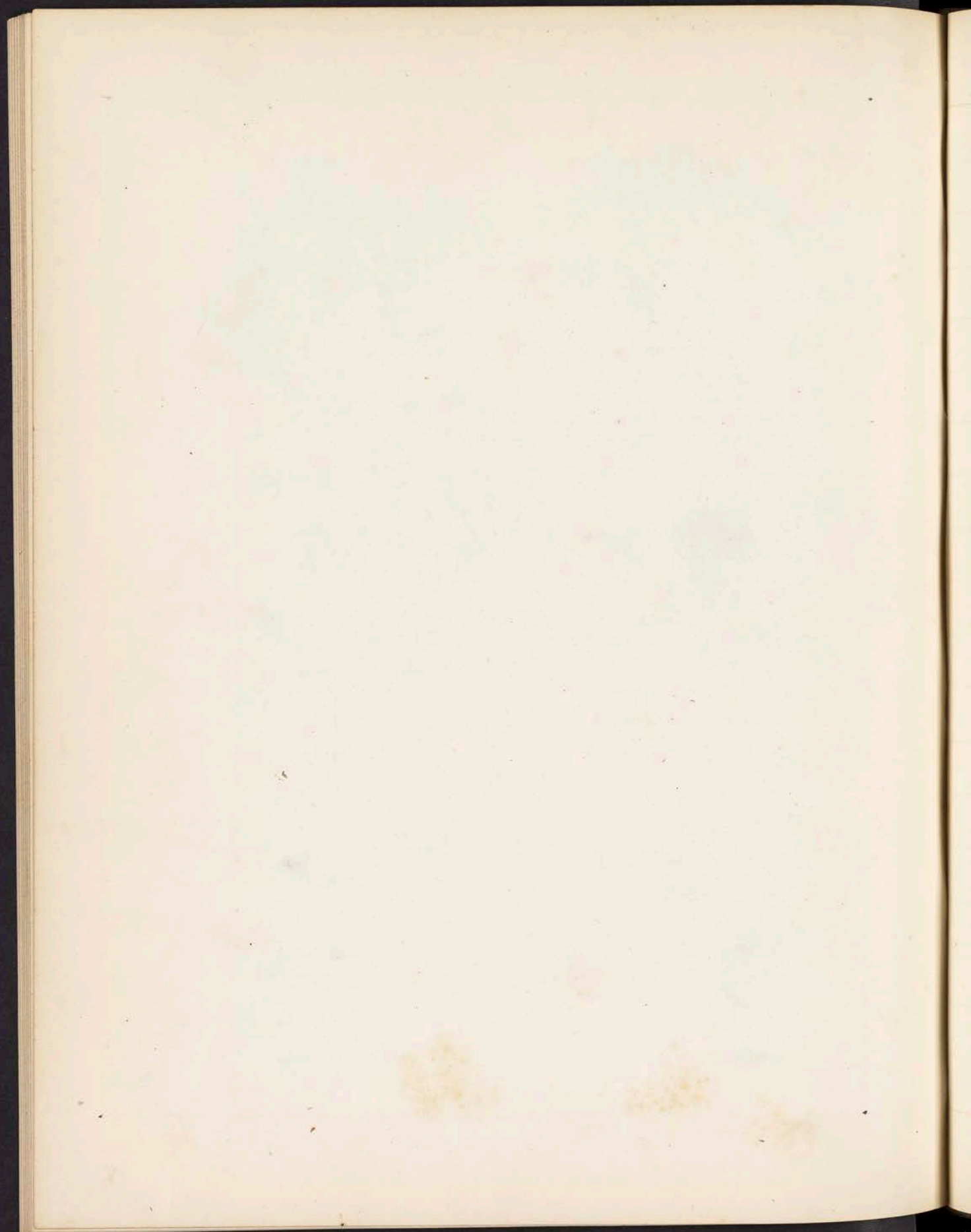
Fig. 5



Fig. 6









Page 1. [Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]



✓ Fig 1. Epithelial tumor of Breast. See page 89  
 (a) - fat cells  
 (b) - Epithelial cells.  
 (c) - crystals of cholesterol.

✓ Fig 2. Epithelial tumor. Epithelial tumor. See page 90 (from stomach)

Fig 3. Elliptic tumor. Epithelial of Tongue  
 & 4 Fig 3. Dead Epithelial cells. See page 91  
 " 4. Fresh " "

Fig 5. Epithelial of Penis(?) See page 91  
 a - fresh cells  
 b. old "

Fig 6. Epithelial <sup>cyst.</sup> tumor of abdomen. See page 92  
 a. cells forming lining membrane  
 b. old cells & crystals of  
cholesterol



Fig 1

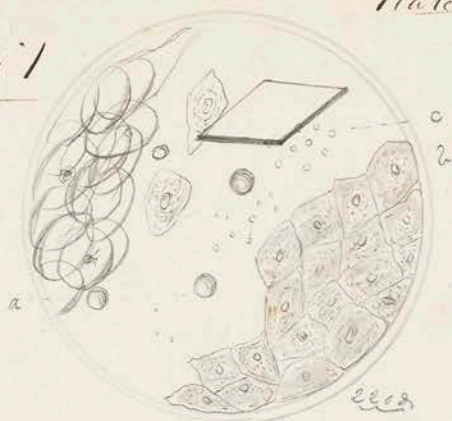


Fig 2

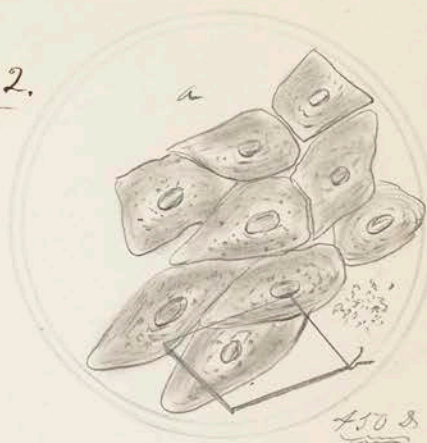


Fig 3



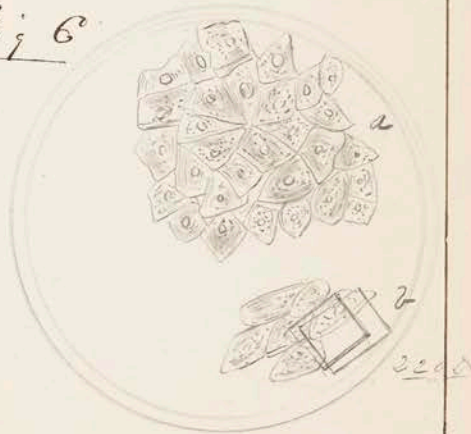
Fig 4



Fig 5



Fig 6





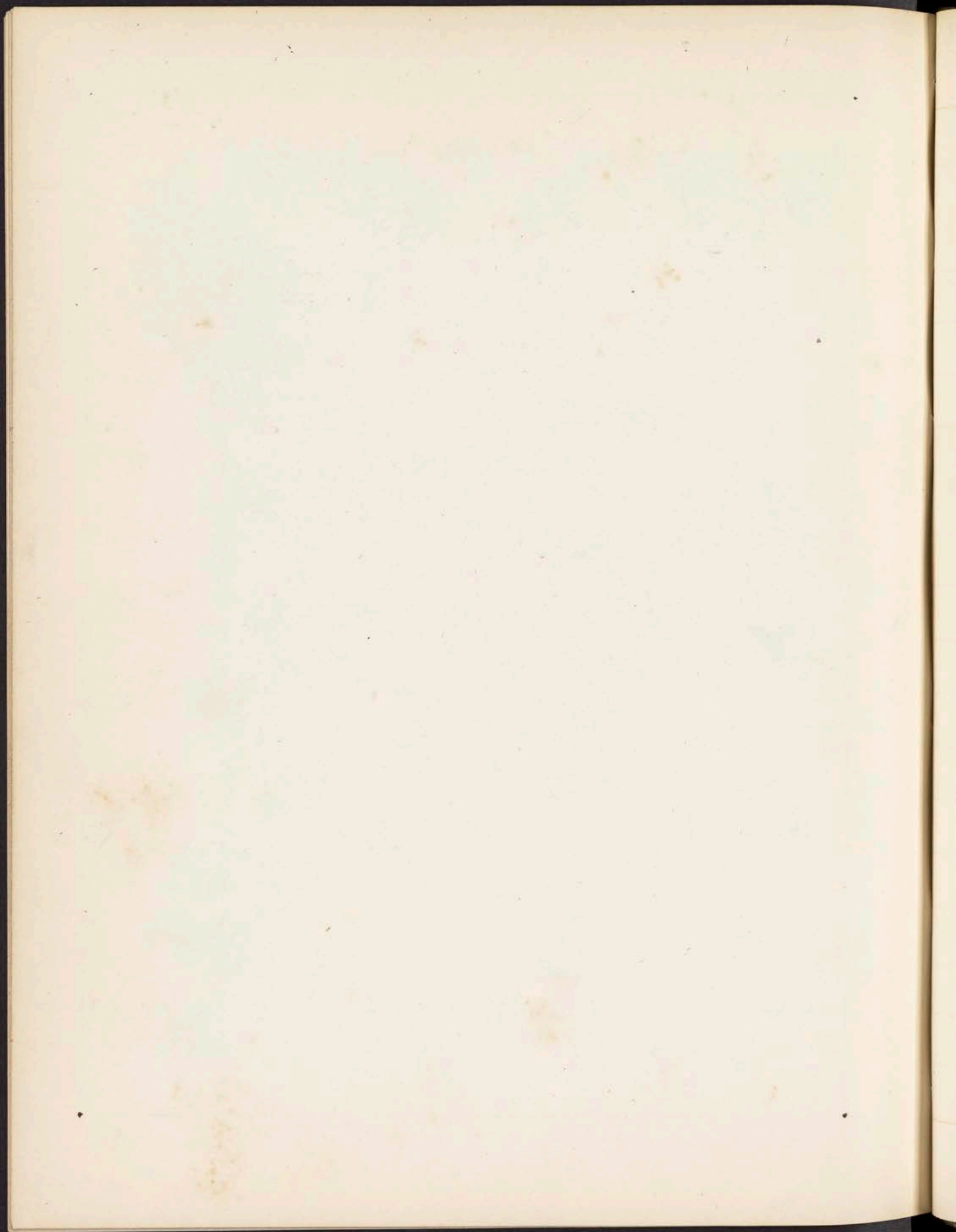








Fig 1.2 Cancer of Eyelid. See page 93 —

23 Fig. 1. Cancer cells, Comp 2 granular cells.

Fig 2 " " " " 470 Microns

The above two figs represent cells found in the fluid squeezed from the tumor.

Fig 3. Hard portion of same tissue, showing fibrous tissue in addition to the cells.

Fig 4. Cancer of Breast (?). See page 94.

Fig 5 }  
a. peculiar cells described in text  
b. Comp 2 granular cells.

Fig 5 - Fat of the tumor.

Fig 6 Cancer of Breast - See page 95.

Cancer cells, at globules & fibrous tissue.



Plate XIV

Fig 1



Fig 2



Fig 3



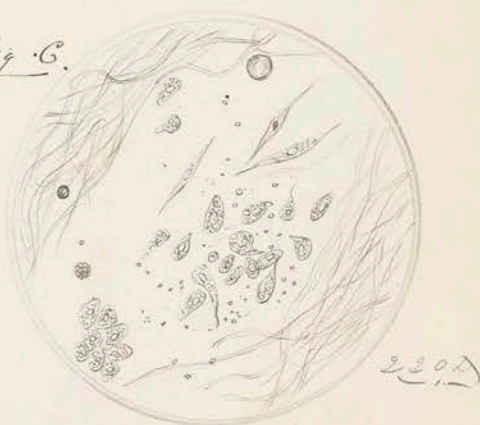
Fig 4



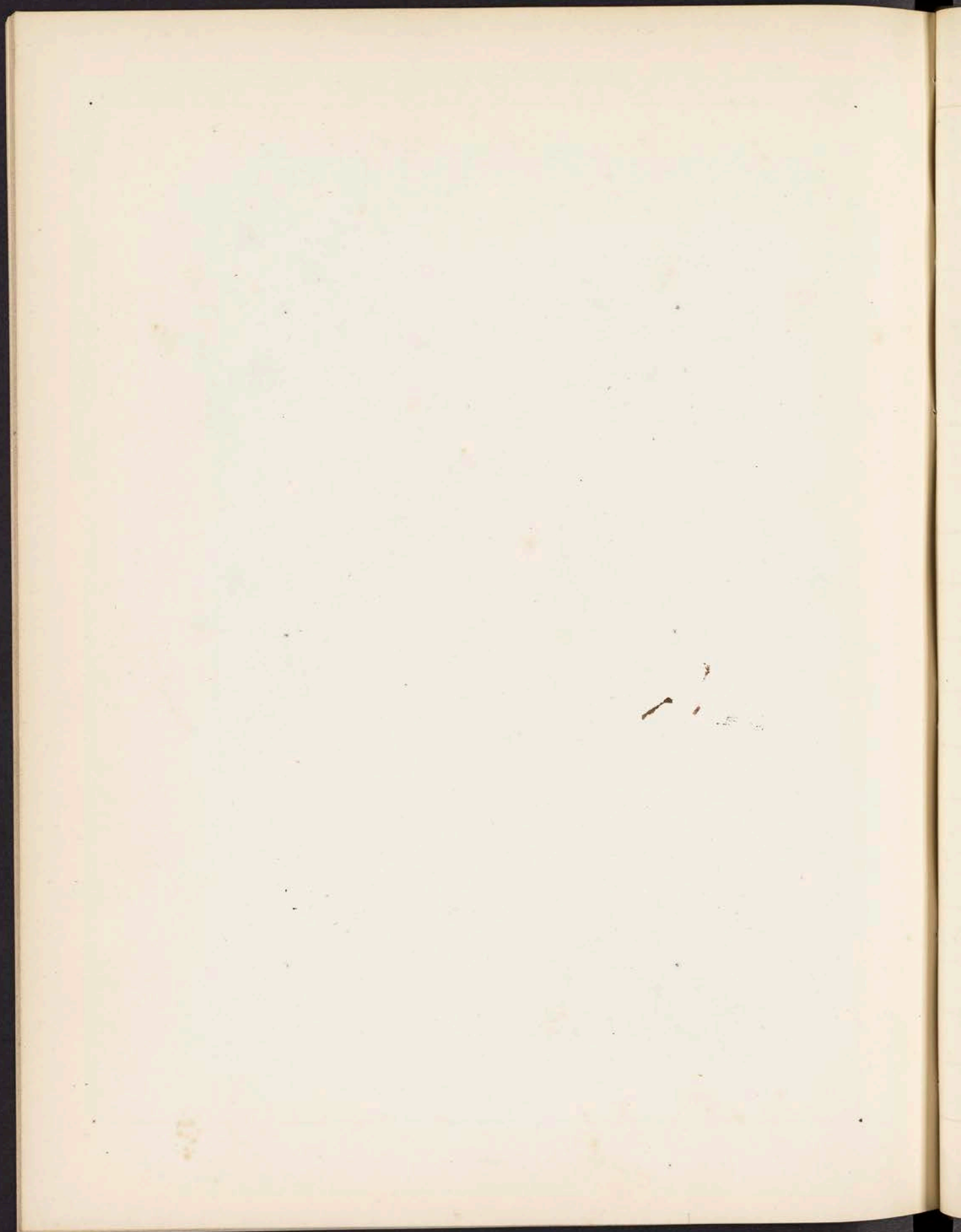
Fig 5



Fig 6













Spec-  
prot  
+V

- Fig 1 . Epith. of Face. } See page 95 -  
a rather Epidemic
- Fig 2 . Epithelium of Toe / apparently Enchondrom.  
a tons. See page 95.
- Fig 3 Tumor of Lp. (Cancer?) See page 96  
+ 4 Fig 3. (a). Hair -  
b. mucus  
c. Epithell. Scale  
d. peculiar cells see text )
- Fig 7 (a) - do -  
(b) Chondrosarcoma (?)  
(c) fibrous tissue See page
- Fig 5 Epithell. Tumor of Thumb See page 97:  
(a) mucus - b. Epith. cells - c. peculiar cells.
- Fig 6 Hair bulb &c. in mole See page  
97



Plate XV

Fig. 1



220  $\mu$

Fig. 2



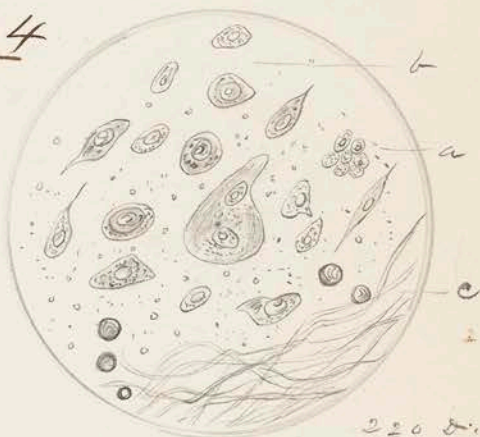
220  $\mu$

Fig. 3



220  $\mu$

Fig. 4



220  $\mu$

Fig. 5



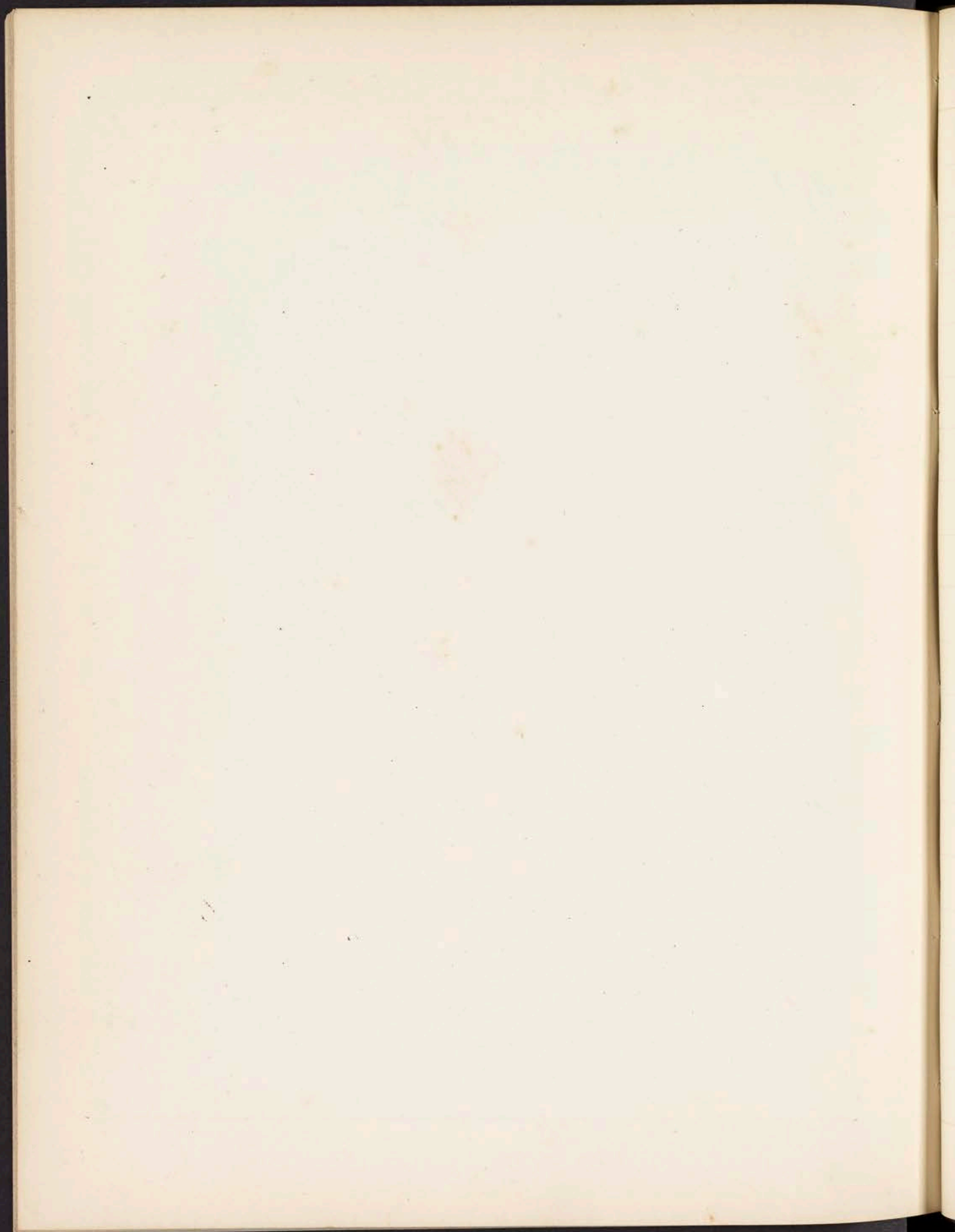
220  $\mu$

Fig. 6



220  $\mu$   
220  $\mu$







Page 1  
The first of the series of papers  
is a list of the names of the  
persons who have been  
admitted to the  
society since the  
year 1800.  
The second of the series  
is a list of the names of the  
persons who have been  
admitted to the  
society since the  
year 1800.  
The third of the series  
is a list of the names of the  
persons who have been  
admitted to the  
society since the  
year 1800.  
The fourth of the series  
is a list of the names of the  
persons who have been  
admitted to the  
society since the  
year 1800.  
The fifth of the series  
is a list of the names of the  
persons who have been  
admitted to the  
society since the  
year 1800.  
The sixth of the series  
is a list of the names of the  
persons who have been  
admitted to the  
society since the  
year 1800.  
The seventh of the series  
is a list of the names of the  
persons who have been  
admitted to the  
society since the  
year 1800.  
The eighth of the series  
is a list of the names of the  
persons who have been  
admitted to the  
society since the  
year 1800.  
The ninth of the series  
is a list of the names of the  
persons who have been  
admitted to the  
society since the  
year 1800.  
The tenth of the series  
is a list of the names of the  
persons who have been  
admitted to the  
society since the  
year 1800.



Fig. 1  
82

Fig. 1. Cancer of Eye & surrounding  
tissue - See page 100  
— (a) filaments of optic nerve.  
(b) fibrous tissue of sclerotic &  
cancer cells.  
(c) cancer cells.

Fig. 2. Cancer cells, comp. & gran-  
ular, etc. - 450 D.  
" "

Fig. 3. Malignant growth from rectum see page 98  
(a) - cancer cells. }  
(b) - fibrous tissue }  
" "

Fig. 4. Cancer of lip. See page 98.  
Cancer cells. Epithelial cells, fibrous tissue  
" "

Fig. 5 & 6 Epithelial Cyst. See page 101

Fig. 5. (a) Crystals of cholesterol }  
(b) Old cells }  
c. Fresh cells }

Fig. 6 Crystals of cholesterol



Plate XVI

Fig. 1



Fig. 2



Fig. 3



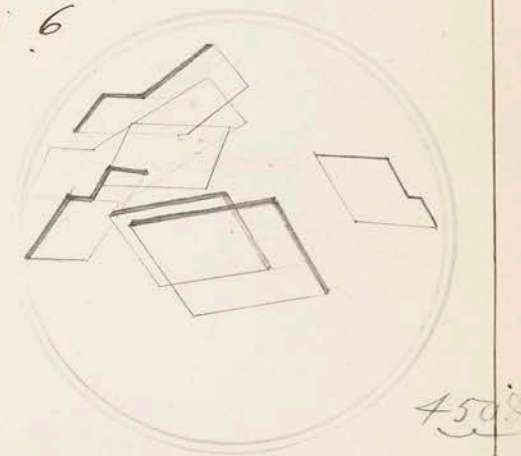
Fig. 4



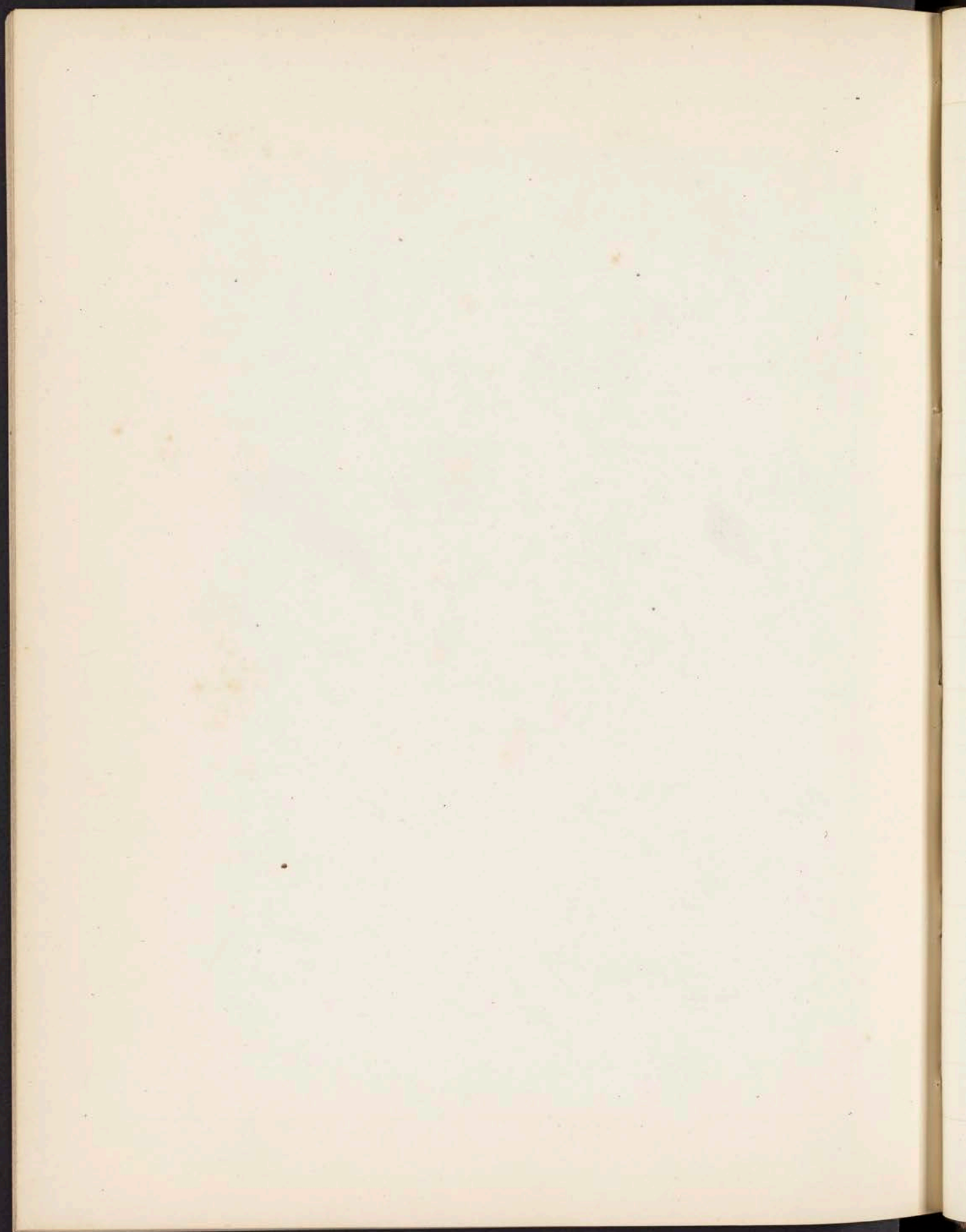
Fig. 5



Fig. 6









1874

1. The first of the year was a  
very cold one, and the  
frost was very early.  
The first of the year was a  
very cold one, and the  
frost was very early.

2. The second of the year was a  
very cold one, and the  
frost was very early.  
The second of the year was a  
very cold one, and the  
frost was very early.

3. The third of the year was a  
very cold one, and the  
frost was very early.  
The third of the year was a  
very cold one, and the  
frost was very early.



Figs 1-4 Med. - Carcinoma - See page 102  
 Fig. 1. Bone when dried. also cells (fresh).  
 " 2. Cells of Cancer of various kinds.  
 " 3. Epithelial cells, fat, & cancer cells.  
 " 4. ————— " & fibrous matter  
 ————— " —————

Figs 5 & 6 From Human of Law. See page 101  
 Epithelial cells, and cancer cells.

Fig. 6 Curious ciliated cells,  
 of Cancerous nature?



Fig 1



Plate XVII

Fig. 2

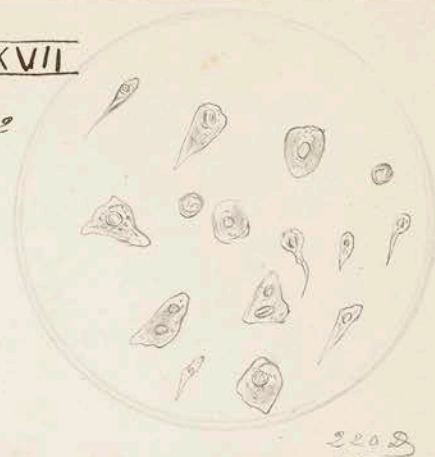


Fig 3



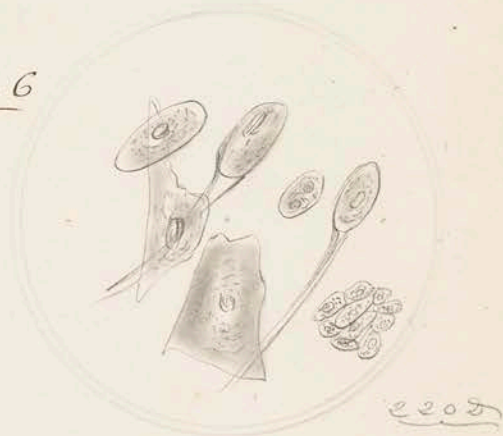
Fig. 4



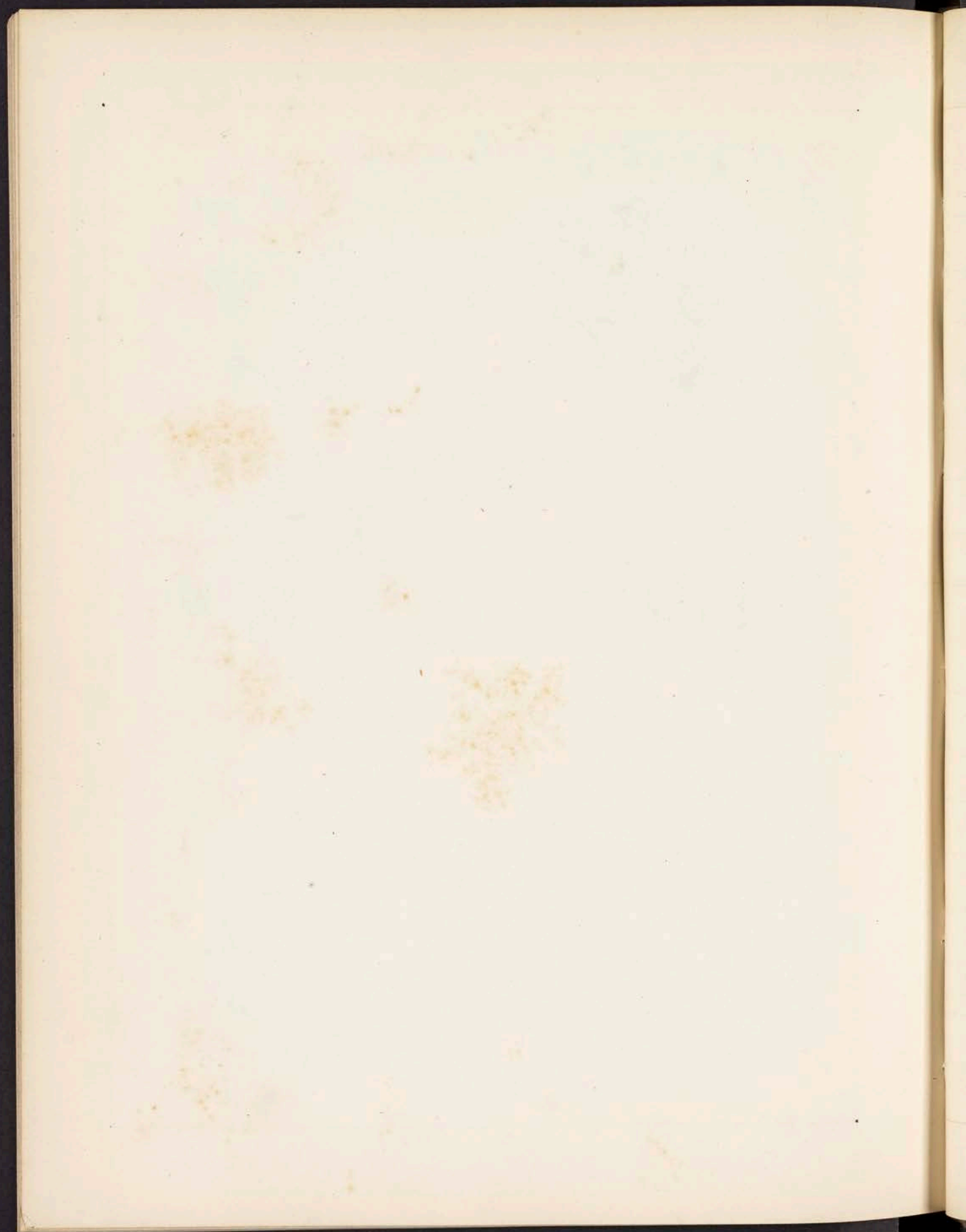
Fig 5



Fig. 6









103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125



Figs 1 & 2. } Malignant Polyposis? See page 103

Fig. 1 - (a) Cancer cells  
(b) oil globules  
(c) complex granular cells -  
fibrous tissue & cyst

Fig. 2  
Fibrous tissue, cells, & complex  
granular cells.

"

Fig. 3 Epithelial Tumor of Lip See page 103  
showing Epithelial cells, fat, &  
cyst in fibrous tissue.

Fig 4 Cancer of Penis - See page 104.  
Showing Epith. Cells. Cancer cells, complex granular  
capsule, granules &c



Plate XVIII

Fig. 1

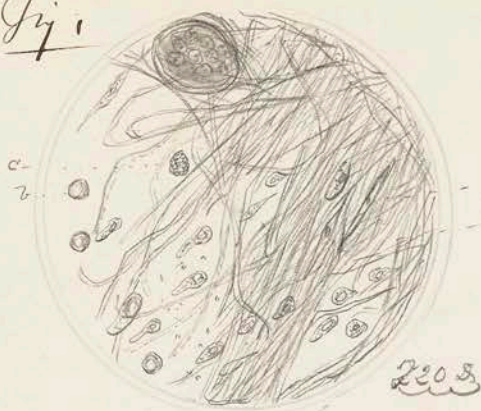


Fig. 2

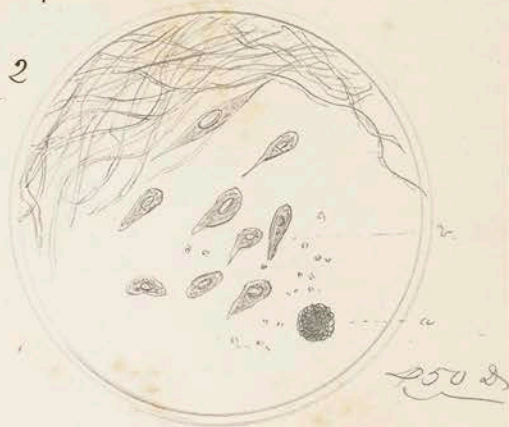


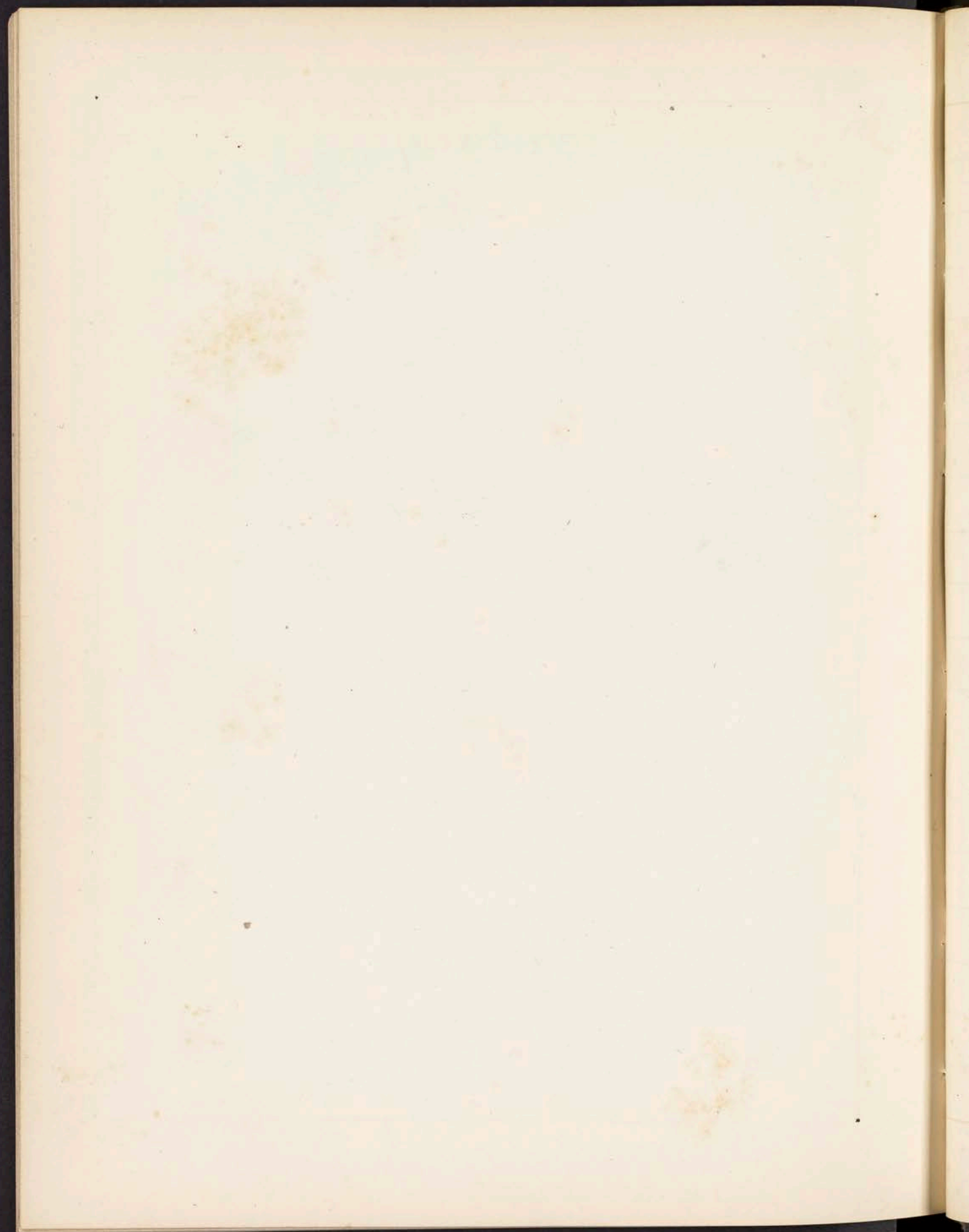
Fig. 3



Fig. 4













Figs 17 } Gouty concretions from toe - See page 104

2 + 3 } Fig. 1 (a) Most probably a <sup>crystals of</sup> double salt of  
Urate of Soda and magnesia - possibly these are  
however crystals of Hippuric acid  
(b). The same -

Fig. 2 (a & b) <sup>crystals of</sup> Urate of ammonia.

Fig. 3. (b) crystals chloride of Sodium / this  
is the common form (a) a rare form of  
crystals of Chloride of Sodium.

"



Plate XIX

Fig 1



Fig 2



Fig 3

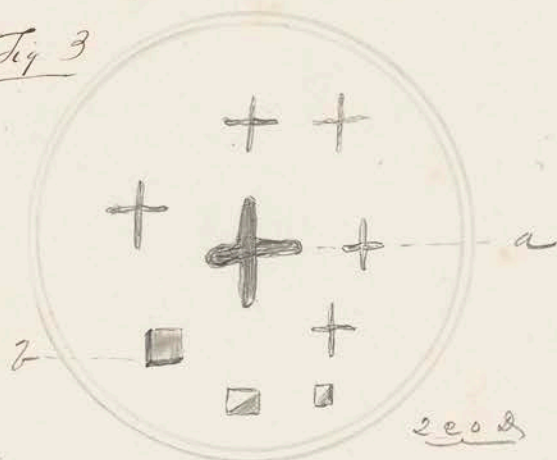


Fig 4



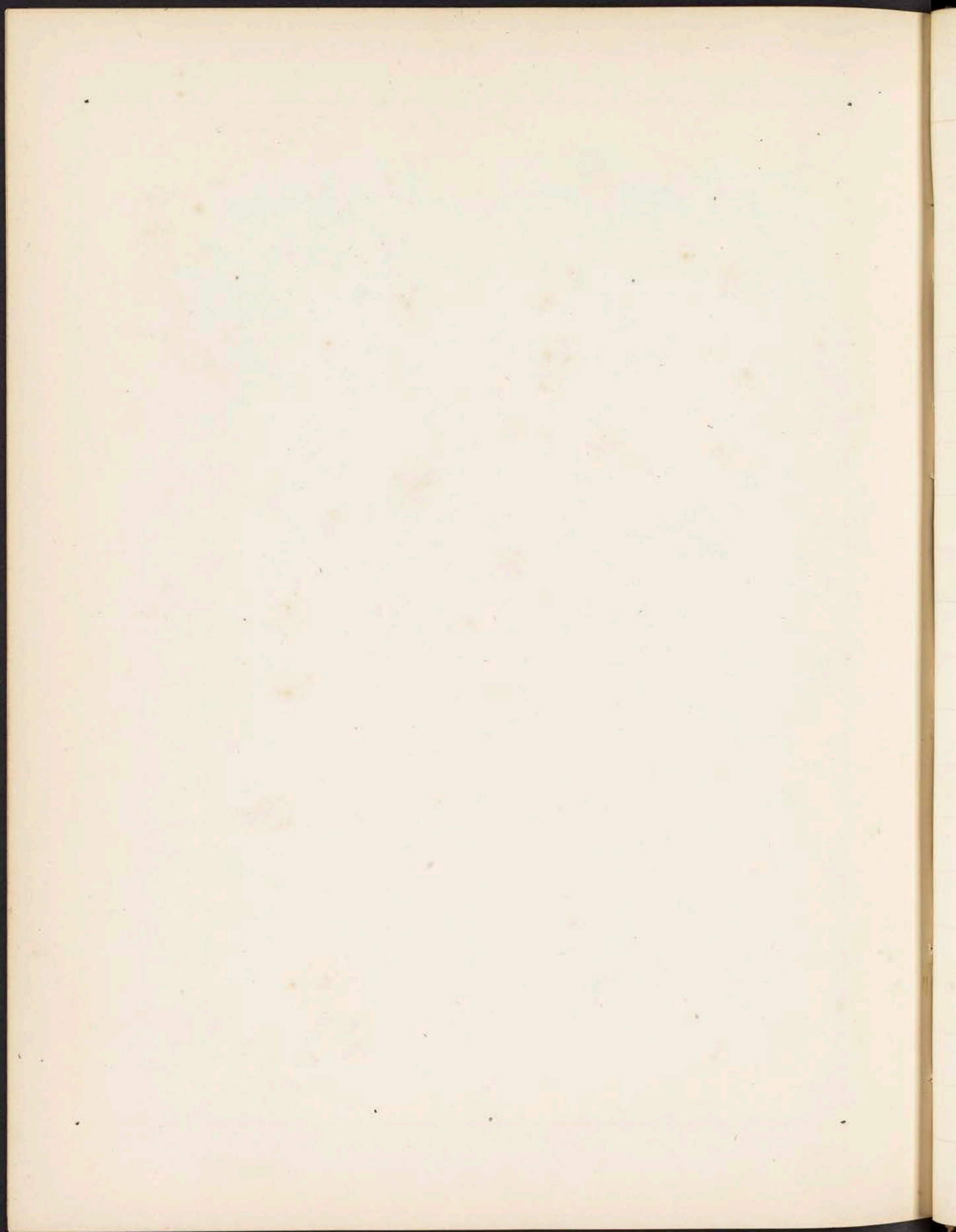
Fig 5



Fig 6









Page 105 - 106

Page 107 - 108

Page 109 - 110

Page 111 - 112

Page 113 - 114

Page 115 - 116

Page 117 - 118

Page 119 - 120

Page 121 - 122

Page 123 - 124

Page 125 - 126

Page 127 - 128

Page 129 - 130

Page 131 - 132

Page 133 - 134

Page 135 - 136



To face plate  
XX

Figs 1 & 2 } Tubercle of Testis see page 105 -  
(A) cells of tubercle for most part non-nucleated - (B) granular matter -

---

Fig 3 Tubercle of Lung / Miliary / See page 106  
(A) cells of tubercle / many nucleated, not much as this deposit had but just commenced  
(B) granular matter -

---

Fig 4 Tubercle from Breast of Stephen Lee  
see page 107.

---

Fig 5 Tubercle of Lung }  
Fig 6 " " from Hospital, see page 108.  
" " " " " " " " " " " "



Plate XX

Fig 1



Fig 2



Fig 3



Fig 4



Fig 5

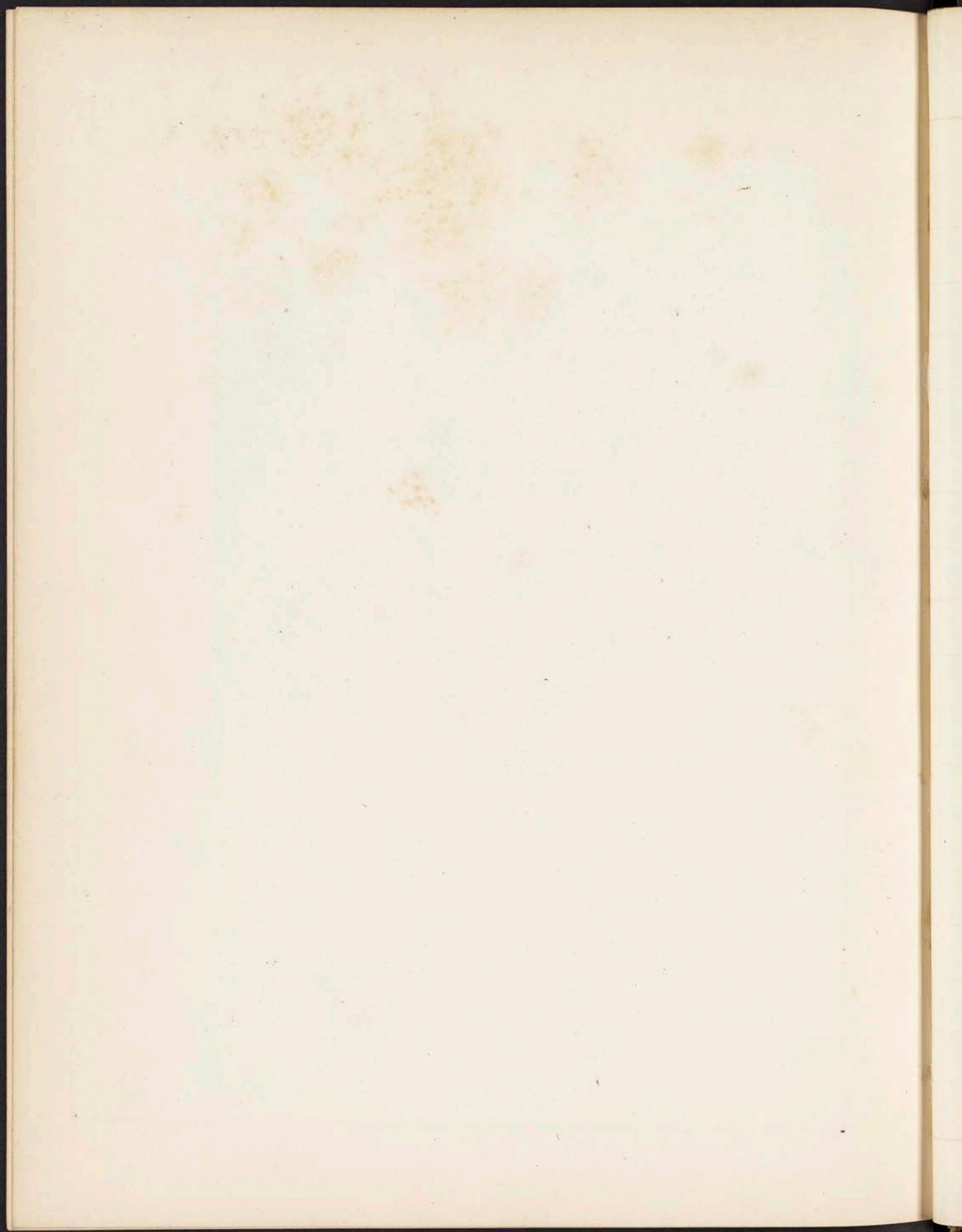


Fig 6



Fig 2a-1  
2.5"







1. The first part of the paper is devoted to a description of the general character of the country, and to a statement of the principal features of its topography. The second part is devoted to a description of the principal cities and towns, and to a statement of the principal occupations of the people. The third part is devoted to a description of the principal rivers and lakes, and to a statement of the principal fisheries. The fourth part is devoted to a description of the principal minerals, and to a statement of the principal manufactures. The fifth part is devoted to a description of the principal educational institutions, and to a statement of the principal scientific discoveries. The sixth part is devoted to a description of the principal religious institutions, and to a statement of the principal religious beliefs. The seventh part is devoted to a description of the principal political institutions, and to a statement of the principal political principles. The eighth part is devoted to a description of the principal social institutions, and to a statement of the principal social principles. The ninth part is devoted to a description of the principal economic institutions, and to a statement of the principal economic principles. The tenth part is devoted to a description of the principal cultural institutions, and to a statement of the principal cultural principles.

2. The second part of the paper is devoted to a description of the principal cities and towns, and to a statement of the principal occupations of the people. The third part is devoted to a description of the principal rivers and lakes, and to a statement of the principal fisheries. The fourth part is devoted to a description of the principal minerals, and to a statement of the principal manufactures. The fifth part is devoted to a description of the principal educational institutions, and to a statement of the principal scientific discoveries. The sixth part is devoted to a description of the principal religious institutions, and to a statement of the principal religious beliefs. The seventh part is devoted to a description of the principal political institutions, and to a statement of the principal political principles. The eighth part is devoted to a description of the principal social institutions, and to a statement of the principal social principles. The ninth part is devoted to a description of the principal economic institutions, and to a statement of the principal economic principles. The tenth part is devoted to a description of the principal cultural institutions, and to a statement of the principal cultural principles.

3. The third part of the paper is devoted to a description of the principal rivers and lakes, and to a statement of the principal fisheries. The fourth part is devoted to a description of the principal minerals, and to a statement of the principal manufactures. The fifth part is devoted to a description of the principal educational institutions, and to a statement of the principal scientific discoveries. The sixth part is devoted to a description of the principal religious institutions, and to a statement of the principal religious beliefs. The seventh part is devoted to a description of the principal political institutions, and to a statement of the principal political principles. The eighth part is devoted to a description of the principal social institutions, and to a statement of the principal social principles. The ninth part is devoted to a description of the principal economic institutions, and to a statement of the principal economic principles. The tenth part is devoted to a description of the principal cultural institutions, and to a statement of the principal cultural principles.



(To page plate A. XX)

Fig. 1. Cancer of the Uterus. See page

42

(A) cancer cells } of fluid  
(B) pus.

(C) Cancer cells. (D) fibrous tissue) - c&d are from }  
hard tissue }

Fig. 2. (a) cells, (perhaps, cancerous.)

(b) Cancer cells

(c) fibrous tissue

(d). condensed cells. 450 D

"

} from  
hard portion  
of uterus

Fig. 3.

Cancer of Rectum - See page.

"

"

Fig 4

Cancer of Breast. See page

5 & 6.

(a) - cancer cells from soft part of tumor

(b) - fibrous tissue

(c) - peculiar cells perhaps glandular } from

(d) - ~~epithelial~~ cancer cells

"

} hard part  
of tumor

Fig 5

& 6

} Cancer cells from soft, fungoid  
portion of tumor.

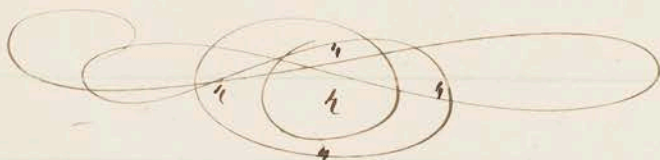




Plate XXI

Fig 1



Fig 2



Fig 3



Fig 4



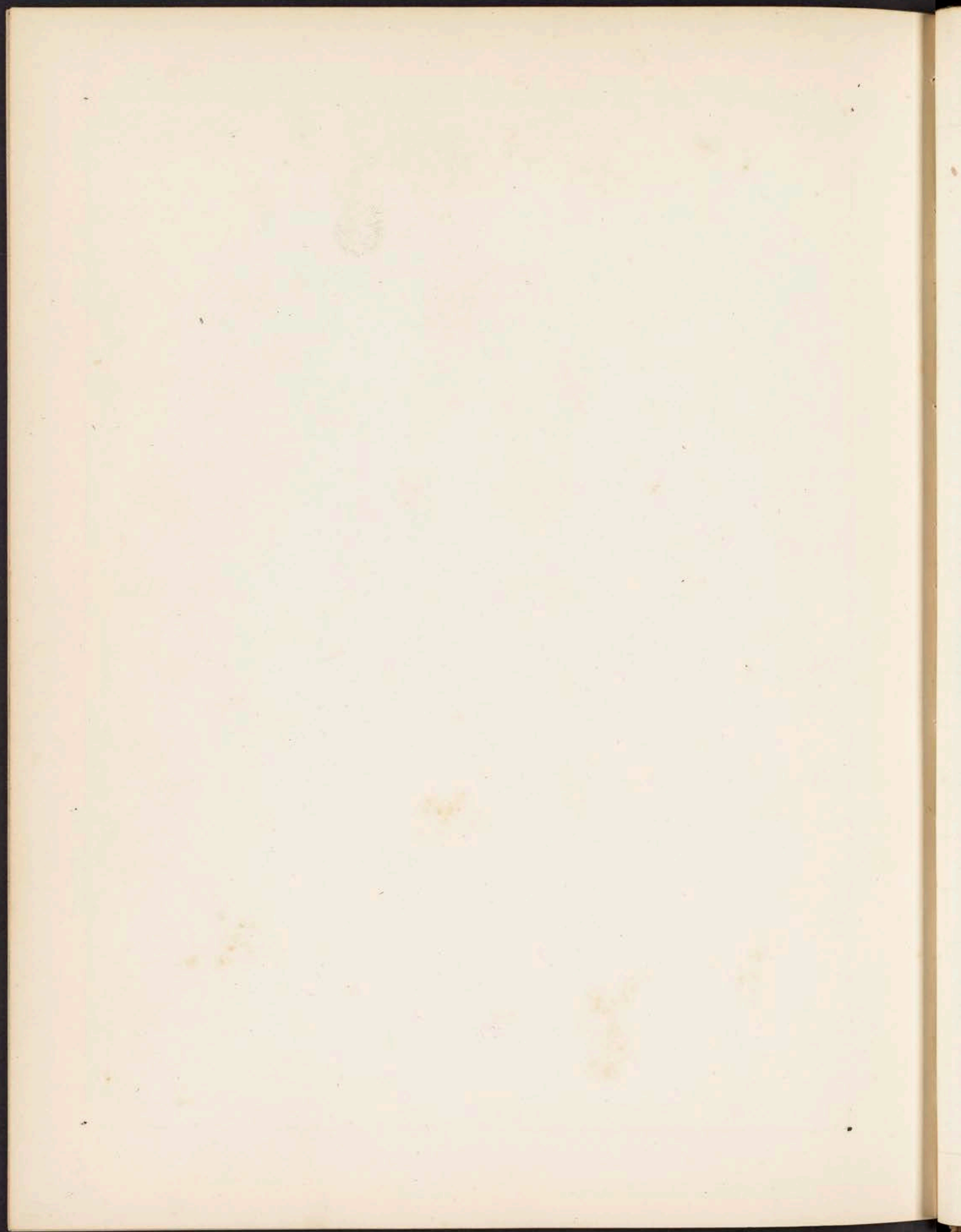
Fig 5



Fig 6













W. H. - 10th XXII

Fig 1  
+ 2

Cancer of Breast - See page

Fig. 1

a - compound gland cell } fluid of }  
b - cancer cells } tumor }  
c - Cyst from dissection of tumor.

Fig. 2

a) beautiful cells (see text) } from  
b) gland cells } axillary  
c) fine oil globules } glands.  
d) fibrous tissue (yellow) of nipple  
e) - fibrous structure of tumor.

Fig. 3.

Cancer of Breast - See page

Fig 4.

Epithelial tumor of Nelly. See page  
showing epithelial cells & fibrous tissue



Plate XXII

